

Newskeeper

VOLUME 4

ISSUE 14

Presenting *V-locity*.[™]
Breakthrough Technology
for Virtual Performance.



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Diskeeper Corporation is the industry leader of technologies that enhance the performance and reliability of Windows® computers. Founded in 1981, Diskeeper is a multinational corporation with headquarters in Burbank, California, and corporate offices in England and Hong Kong. The Diskeeper product line is distributed widely across the globe.

Launched to an overwhelming success, Diskeeper Corporation has sold over 35,000,000 copies of their flagship product—making it the most widely used automatic defragmenter on earth. In the United States alone, over 450 of the Fortune 500 and millions of home users rely on Diskeeper software to provide constant speed and reliability to their Windows-based laptops, desktops and servers.

Looking forward: essential technology for the enterprise



Real-time defragmentation
Zero overhead



Virtual Platform Disk
Optimizer for Hyper-V™



Real-Time Protection
Real-Time Recovery™



Solid State Drive
Optimizer for PCs



Zero system overhead
application technology



Diskeeper Corporation's knowledgeable customer service representatives are available to answer your questions, give a custom ROI analysis of your system needs or provide quick, no commitment quotes.

Call direct 800-829-6468, send an email to sales@diskeeper.com or to one of these professionals:

- Rick Grassi - rgrassi@diskeeper.com
- Holleigh Taufer - htauffer@diskeeper.com
- Rachael Jackson - rjackson@diskeeper.com

FOR GENERAL INFORMATION on Diskeeper Corporation or any of our products, please e-mail, phone or write to us. If there is specific information you require, contact any of the representatives above and they will be happy to help.

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It's not just a lucky stroke of fortune that made Diskeeper Corporation the industry leader in essential innovations that enhance performance and reliability.

We've upheld that standard for every one of our twenty-three years through intense work and continuous development. We create solutions that become core infrastructure performance fundamentals. This is because our research and development is based on real surveyed needs of our customers. It's not enough to "push the envelope"; we are driven to create the envelope and continue to define what's possible by achieving the impossible.

Diskeeper Corporation invented automatic disk defragmentation and did so at a time when many thought fragmentation wasn't an issue. They incorrectly associated its debilitating effects with other causes and wasted huge amounts of time and money trying to fix them. Our customers saved a fortune by simply using Diskeeper.

As applications, services and utilities proliferated on systems, we developed a better way to allocate resources and allow a program to run completely in the background – InvisiTasking®. To paraphrase Arthur C. Clarke, InvisiTasking is so advanced it is nearly indistinguishable from magic; when InvisiTasking is running, a system actually runs faster than when InvisiTasking is paused.

Diskeeper Corporation products are investments in your company's continuing ability to work efficiently and cost

effectively regardless of the IT challenges that arise. As our customers—from small offices to Fortune 100 global enterprises—tell us repeatedly, it would cost them more NOT to use our products.

It doesn't take a fortune-teller to see that information technology has developed to the point where virtualization not only makes sense, it is in fact a fundamental path to the future. We saw this coming and have just released V-locity™, the first virtual platform disk optimizer that adds real intelligence and ensures maximum performance and reliability to virtual sites.

Frankly, it is essential technology for the virtual enterprise and all of us need it.

As you'll see in the pages of this issue, V-locity is yet another indispensable Diskeeper Corporation standard and one that all other efforts will be judged against.

“We continue to define what's possible by achieving the impossible.”



A breakthrough release! Presenting new intelligence for virtual environments.

Virtual machines are the future and loaded with potential benefits. However, unknown until now, virtualization can become a costly experiment in bottlenecked performance and wasted disk space.

We have a solution. V-locity™, the world's only virtual platform disk optimizer. Read this white paper excerpt by Bernard Marx, PHD, of Topix Technologies.

Platform virtualization consists of creating one or more virtual instances of an operating system (OS), typically known as a Guest OS or VM (virtual machine), which is under the false impression that it exclusively owns the hardware on which it believes it is directly installed.

Platform virtualization "host" software is designed to allocate physical resources (hardware, CPU, memory, etc) statically or dynamically across virtual machines/guest operating systems.

While this "host" software can be an application run on a full blown general purpose OS, more commonly in enterprise IT infrastructures a virtualization host is a specialized software layer (a thin "hypervisor"), better streamlined for hosting multiple Guest OS'es on a shared platform. This direct installation is often, in the context of virtualization terminology, referred to as a bare metal OS or Type-1 hypervisor. Common examples of 'Type-1' hypervisor software include Hyper-V™, XenServer™, ESX™ Server.

It is important to note that each hypervisor or guest carries out independently its own applications as if it were the only system on the "physical" hardware. This is perhaps the most critical concept to communicate, as addressing this is arguably the most difficult and most significant consideration for an IT professional looking to implement a virtualization solution.

Defining virtual hard disks

There are numerous methods for storing these VMs on hypervisor managed disk subsystems. In most cases, each instance of a "guest" operating system stores its whole data & tasks, logs, etc in a single file (.vhd, .vmdk, etc...) commonly known as a virtual hard disk. Other options are supported on various hypervisor solutions such as "pass through" disks. The various virtual disk types all have their respective benefits and drawbacks and numerous publications already offer best practices for choosing the appropriate type based on the system's purpose.

The 'single' virtual disk file is at present the most common, as it allows for easier migrations and clustering support for the virtual hard disk, and depending on your choice of virtualization platform, there are effectively two types. One type is a single virtual hard disk file of a fixed size. The benefits of such a file are relatively high and predictable performance at the cost of likely pre-allocating more physical storage space than necessary to accommodate growth. Another virtual disk type is a disk that allocates physical space only as needed, at the cost of some performance overhead. Again the choice of the disk type should be based on the business service level agreements.

The disk is still the weak link

While virtualization inexorably adds additional software overhead, the physical limitation of mechanical disk drives is still the bottleneck.

Processors and memory can carry out instructions of magnitude faster than mechanical disks. Therefore, the slower the disk (disk subsystem) is, the slower the entire system runs. This problem worsens unceasingly as the level of disk requests increases, with fragmentation exacerbating the amount of disk I/Os required to fulfill a request.

And you may have already guessed this is particularly the

case with virtualization, where fragmentation continues to exist in Windows volumes encapsulated within virtual hard disks. So, a combination of fragmentation and virtualization tremendously increases traffic to the storage system.

Disk fragmentation in a virtual environment

Fragmentation appears as soon as file segments are distributed into noncontiguous logical space, which typically translates quite directly to physical space. In the case of virtual systems (see image), fragmentation occurs within each virtual hard disk by that Guest OS, and on the virtual platform (e.g. Hyper-V – which uses NTFS) itself.

Splattering the various parts of files rather than writing a file contiguously, results in a slow hard drive now having to move mechanical parts to locate all the fragments for a given file.

Obviously, accessing the various fragments of files, disseminated in several places, considerably slows down access speed.

The more virtual machines there are the more aggregate fragmentation. In fact, the greater the current degree of fragmentation (as file fragmentation increases the likelihood of free space fragmentation) the greater the probability each new file created will fragment.

Shortly, this accumulating fragmentation results in a deceleration of virtual platform performance. It also causes perverse effects: a greater monopolization of the resources and of I/O.

In extreme cases they are likely to compromise the reliability of the architecture with consequences which go from slow performance annoyance to disastrous system and application "freezes" or hangs.

Virtualization considerations

There is a world of difference between casual use of Parallel Desktop™ on a Mac (to emulate a PC) and a Hyper-V platform set up to concurrently run tens or even hundreds of virtual machines at, or close to, physical system performance levels.

Without a doubt, hypervisor-based solutions are a must for enterprise needs. The hypervisor's thin framework is far superior in minimizing the overhead of that added layer of software. At present, implementing a hypervisor-based virtualization infrastructure is still relatively complex, requiring powerful hardware, sophisticated management tools, and a very high level of IT competency in order to achieve a satisfactory result.

Maintaining a high service level agreement (SLA) requires deep knowledge of production requirements that core business applications such as DBMS will generate.

Provisioning hardware that is capable of supporting requirements is typically the initial step in designing a virtual infrastructure. However, Virtualization Administrators will need to combine both hardware and software symbiotically to achieve their ultimate goal of consolidating physical systems and increasing efficiencies while averting bottlenecks.

As we described earlier, solving fragmentation is a paramount software consideration that correlates closely to hardware performance. In fact, adding more disk spindles to increase disk I/O performance is the most common misapplied solution for file fragmentation (on both virtual and physical systems).

In all cases, from consumer to enterprise application of the technology, file fragmentation undoubtedly remains a major governing factor for the performance ceiling of virtual machines. The remainder of this paper will explore the performance benefits of solving fragmentation and the specific technological needs that an enterprise virtual infrastructure requires from such a solution.

It will be necessary, on each host and each guest, under Windows, to implement a defragmentation solution; ideally one with the ability to communicate between the host and its guests.

V-locity™ unlocks the full potential of your virtual system.

V-locity with InvisiTasking® technology currently installs on both Windows® Server 2008 Hyper-V™ and all Windows virtual machines (guests). Each component optimizes its respective Windows OS and performs defragmentation of files and consolidation of free space. This

minimizes unnecessary I/O passed from the OS to the disk subsystem and aligns data on the drives for optimal access.

V-locity accomplishes the following:

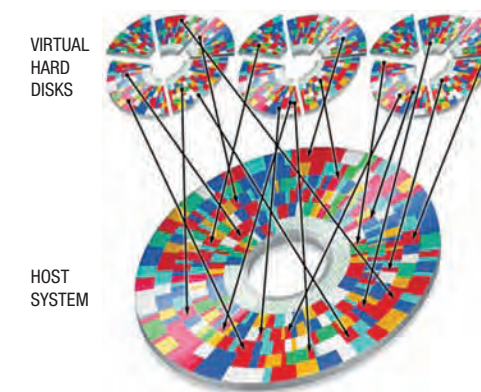
- Completely eliminates "fragmentation on top of fragmentation" accumulation that plagues all virtual platforms.
- Optimizes virtual platform performance without impacting active resources on the host or guest systems.
- Analyzes waste in a virtual disk space and allows one click VHD compaction.

This cutting-edge solution is only available from Diskeeper Corporation, the industry leader in performance technology, at limited time new release pricing! To read the rest of this white paper and review test results for yourself, visit: www.diskeeper.com/v-locity/index.aspx

For 30-day trialware, visit: www.diskeeper.com/v-trial



“Fragmentation appears as soon as file segments are distributed into noncontiguous logical space.”



V-locity and the bottom line

While the performance numbers do speak for themselves, it is always important to qualify technical data from a business perspective; namely, "how much money will this make/save". It comes down to dollars and cents and to the return on the investment made. The great news is that V-locity, the world's only virtual platform disk optimizer for Windows® Server 2008 Hyper-V™, offers not only outstanding performance, but also very substantial cost savings. Frankly, V-locity is an obvious investment to make in these times of economic difficulties, as it enables a company to reduce capital expenditures and benefit from measurable savings in hardware and other hard dollar costs, as well as sizeable time savings and employee productivity gains. V-locity is a must-do investment if you care about the performance and reliability of your systems and about the financial health of your company.

How much money can you save?

No two system installations are identical across different companies. At Diskeeper we have developed a customizable ROI Calculation Program to assess the cost savings and productivity gains your company will get upon installing V-locity.

We will be happy to do this analysis for you free of charge, to show you how much you can save by adopting V-locity. Just contact us at 800-829-6468.

To give you a sense for the economic impact of V-locity, we have created a model to simulate its economic impact on a "typical" corporation with 1,000 knowledge workers (employees who use a PC). Whether the VMs are virtual desktops or virtual servers hosting user data and apps, the ROI considerations are quite comparable.

In virtualized environments, taking into account infrastructure variance (i.e. Number of host servers, number of virtual machines per host, OS used on VMs, etc), and given the base costs of V-locity licenses, the return on investment of such a solution is well under one year based solely on hard dollar savings, for a typical installation. Once you factor in conservative estimates for operational time savings and productivity gains, the payback comes in under 7 months. Get paid fast with V-locity!

While each computer network is differently configured and obviously subjected to different utilization patterns and demands, we have found that V-locity saves money in several different ways:

- It reduces the average failure rate (AFR) of hard disk drives by more than half
- In addition to avoiding so many catastrophic disk failures, it also extends the useful life of HDDs at peak performance by a year or more
- It cuts down on the need for user support
- It reduces energy consumption
- It eliminates significant wait time for users every time they load up or save a file, which translates to greatly improved productivity.

Our simulation of the economic impact of V-locity on a 1,000 user installation resulted in the following compelling economic benefits:

Recovery of all your investment in V-locity due to hardware and other hard dollar savings in only 10 months

Once we also factored in the savings of time and improvements in productivity (according to a very conservative estimate), the payback time was reduced to only 6 ½ months!

The ROI on V-locity is over 100%, you get paid back in the first year!

Here are the assumptions behind the numbers in the text based on 1,000 workstations:

1. V-locity cost of \$149.99 for each of 250 CPU cores, total \$37,497.50, rounded to \$37,500
2. Hardware savings per annum from:
 - a. HDD AFR rate reduction from 10.5% to 4% : 65 HDD x \$199.95 each = \$12,996.75
 - b. HDD useful life increased from 3 to 4 years
 - i. 1,000 units x \$199.95 cost spread over 3 years is \$66,650
 - ii. 1,000 units x \$199.95 cost spread over 4 years is \$49,987
 - iii. Savings is \$66,650 - 49,987 = \$16,662
3. User support / Help desk – estimated 240 hours, (average 15 minutes saved per workstation per year), of an IT professional @ \$56/hour = \$13,440 per annum
4. Time Savings and Productivity Gains of a savings of:

10 secs/file x 10 files/day x 220 days x 1,000 users x \$42/hour / 3,600 seconds/hour = \$256,667 per annum of potential savings and, considered only 10% of that as "real economic recovery", to be conservative about it = \$25,667 per annum

Total estimated annual savings is:
 \$12,997 + 16,662 + 13,440 + 25,667 = \$68,766 per annum. Compared to an investment of \$37,500 this gives a payback in only 6.5 months with an ROI well over 100%.

The Diskeeper Corporation Maintenance Agreement—protect your volume license investment.



Receive upgrades automatically when new software versions are released

You can have the most current version of Diskeeper—at a savings of up to 50%. * Diskeeper Corporation Maintenance Programs are available for volume license.

With a 1 or 2-year Diskeeper maintenance agreement, you're guaranteed to get new versions of Diskeeper at no additional cost. Purchasing maintenance for your volume license gives you a dramatic cost savings of up to 50% compared to an upgrade purchase. Maintenance can pay for itself with only one upgrade!

Maintenance Program Benefits:

- Free updates and upgrades provided automatically.
- Cost Savings: our 1 or 2-year maintenance program is up to 50% less than the cost for buying upgrades.
- Easy Budget Management: our renewable maintenance programs make it easy to budget for future expenses. Furthermore, no additional costs are incurred for upgrades as they are covered under the maintenance program.
- Convenient Website Downloads: quick and easy access to downloading updates from our site.

- Efficiency: have the latest and greatest versions of the software, which always includes the newest features and enhancements.

With a maintenance agreement on your volume license software, you will be among the first to automatically receive your free upgrade to your product during the agreement period. This way, you always stay up-to-date on your software, have the newest technology available and enjoy the benefits.

A maintenance agreement also provides the advantage of being able to budget your software costs for the next 1-2 years (depending on contract length).

If you have any questions regarding the Diskeeper Corporation Maintenance Program, please contact your favorite reseller or a Diskeeper Corporation sales representative at 800-829-6468 code 4218.

Haven't tried new Diskeeper 2009 yet? Download it now!

www.diskeeper.com/d-trial

*Savings depends on product purchased and volume license level of software.

Breakthrough technology. Breakthrough pricing.



VIRTUAL PLATFORM DISK OPTIMIZER FOR HYPER-V™

Virtual machines are the future and loaded with potential benefits. However, unknown until now, virtualization can become a costly experiment in bottlenecked performance and wasted disk space. We have a solution.

V-locity is the only solution for full virtual disk optimization:

- ▶ Completely eliminates the "fragmentation on top of fragmentation" accumulation that plagues all virtual platforms.
- ▶ Optimizes virtual platform performance without impacting active resources on the host or guest systems.
- ▶ Analyzes waste in a virtual disk space and allows one click VHD compaction.

Call **800-829-6468** code 4218 for a quote and take advantage of customer only discounts.

Or try **V-locity** free for 30-days at:
<http://www.diskeeper.com/v-trial>



A history of firsts: innovation driven by customer needs.

by Ed Beckmann

Diskeeper Corporation's tradition of innovative software products was begun by our founder, Craig Jensen. From the first, Diskeeper Corporation has been driven by a genuine care for our customers with the clear goal to enhance our customers' systems' performance and increase the reliability of those systems while extending system life.

Each of our products is engineered to address real problems that are severely damaging our customers' computer systems and as a result limit their success. By providing solutions to these problems, we increase productivity. Our success is tied to the success of our customers.

Our core expertise is with file systems and storage solutions, both hardware and software. We leverage this expertise to create and supply innovative solutions at lower levels as well as the enterprise level. Taking an enterprise level view of our customers' operations, with detailed technical know-how at the system and device levels, we have been able to create products that enormously increase the overall productivity of the computer systems and consequently the enterprise.

Each Diskeeper product is geared for increased productivity for the enterprise even if its scope may be at a storage device level, e.g.

enhancing performance and reliability of file systems based on Solid State Disks (SSDs).

Innovation focused on performance, reliability and cost effectiveness is a way of life at Diskeeper.

Our patented InvisiTasking® technology has been one such innovation. Our R & D team invented the means of utilizing system resources (primarily I/O or CPU) without impacting any other function of the system. This allows functions such as defragmentation to occur concurrent with use of the system but without any impact on system performance. Our goal was to accomplish necessary system functions, not with minimal performance impact, but with no performance impact. R & D exceeded this expectation; it was demonstrable that our flagship product Diskeeper with InvisiTasking improves performance while it runs! Thus functions can be performed automatically without any need for scheduling or impacted usage! All of our products today incorporate InvisiTasking to give the customer the greatest performance and reliability.

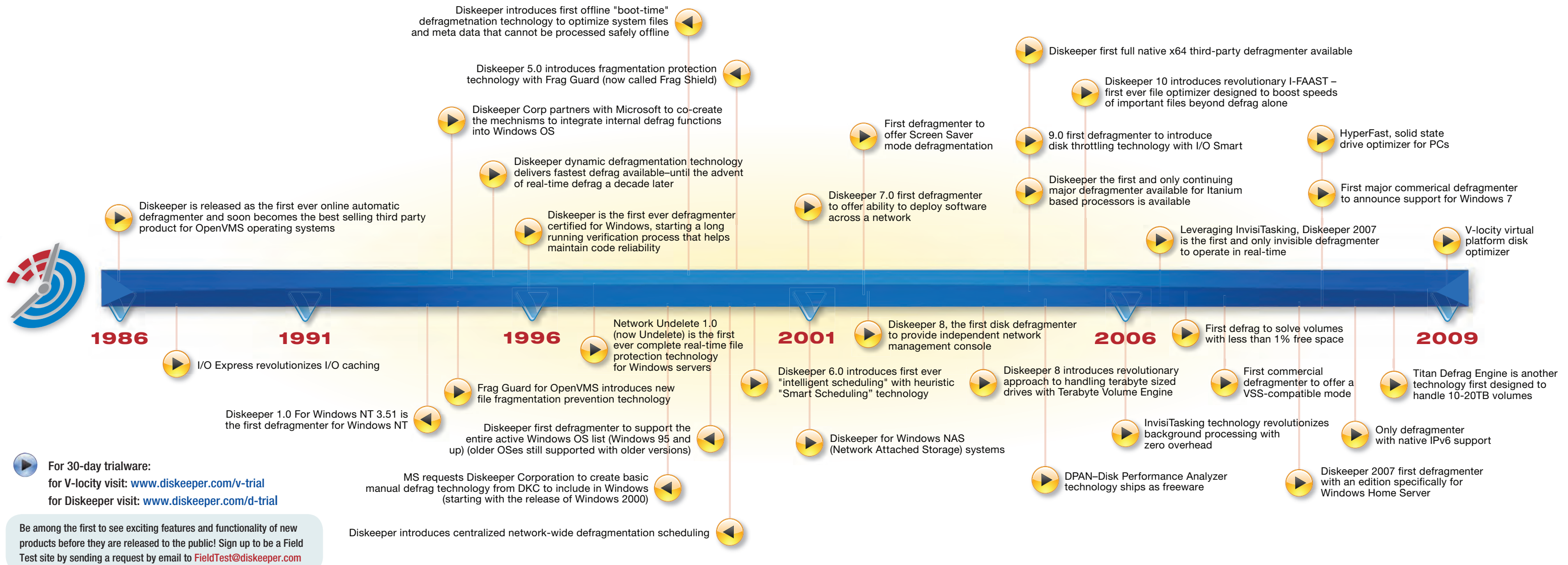
Another aspect of reliability applies to our software itself. The Diskeeper Corporation tradition is a high level of product quality to truly deliver the promised performance and reliability. Through a

carefully crafted set of processes developed by our founder, himself a technical guru, we build in quality at every step of product engineering. Perhaps the greatest testament to our success is evidenced by the fact that the millions and millions of licensed products we have on the market today are well supported by a team of only six technical specialists!

Repeating the theme of reliability and performance enhancement, we often partner with companies in order to provide the best possible product for our customers. For more than a decade we've partnered with Microsoft. Other partners include manufacturers: Intel, Lenovo, HP and Dell. Through these partnerships we jointly deliver to the customer enhanced reliability and performance not otherwise attainable.

Our goal is obtaining the greatest performance and highest reliability possible. It's a great technical challenge for our engineering teams and so we take great pride in hearing of customers' success with our products.

Ed Beckmann is the senior Technical Executive at Diskeeper Corporation in charge of product development.



▶ For 30-day trialware: for V-locity visit: www.diskeeper.com/v-trial for Diskeeper visit: www.diskeeper.com/d-trial

Be among the first to see exciting features and functionality of new products before they are released to the public! Sign up to be a Field Test site by sending a request by email to FieldTest@diskeeper.com

These customer stories illustrate the benefits of 99% uptime, backups cut in half, maximum performance with minimal impact due to InvisiTasking® technology, long-lasting hardware, and HelpDesk calls drastically cut down. They are all from busy production systems utilizing SQL, RAID, VMware, Domino servers and 3D CAD systems. All vital issues for showing the usefulness of Diskeeper in a manufacturing environment.

**- Karen Bakshoian
Testimonial Manager**

"We run an application that specifically benefits from Diskeeper - a SQL-based large database program that keeps all of its data in one huge file. Diskeeper keeps the drive optimized so efficiently that we've noticed a significant decrease in database lockups. Also, our Microsoft Exchange server gets a big boost from Diskeeper.

"We have a couple of VMware virtual machines that have gained benefits from Diskeeper too. Most notable is our barcode scanning system that gets hammered by read/write access 24x7. Very seldom have I had to restart the program since Diskeeper was installed.

"All ten of our servers have RAID technology and since Diskeeper was installed about 15 months ago, we have only had to rebuild one of the server's RAID one time.

"Our ROI has been in productivity savings. The IT staff does not have to run utility and maintenance programs to keep the servers

optimized and running smoothly as when new. This saves us at least 20 IT hours per month. Likewise, because of the continuous optimization of the user programs on the servers, our users have experienced a 99.97% uptime over the past 12 months. The prior 12 months was only about 91% uptime due to all the disk-related issues. I was hired about that time and insisted that we install Diskeeper on all the servers. This has definitely paid off."

The Banker Steel team coordinates design releases for mill order low-cost, full-service structural steel.

**Mark A. Gainer
Director, Information Technology, Banker Steel Company
Lynchburg, VA**

"We are running Diskeeper EnterpriseServer on our Domino Lotus Notes application and also on the mail servers. We are running these across several RAID 5 arrays encompassing over 2.75 terabytes of user data. It used to take us 25 hours to perform our weekly backup of the Domino Servers. By using Diskeeper, we were able to reduce our backup time down to 9 hours. By enabling the automatic defragmentation feature, we increased the performance of the drive array on live production systems with no user impact other than an increase in performance."

Sandvik's AutoMine system is a highly innovative automation system where operators can sit in the control room on the surface and monitor the movements of a fleet of

driverless loaders or trucks hundreds of meters below the surface.

**Jimmy Beltran
Sandvik SIT Americas
Lotus Notes Administrator,
Systems Specialist –
Domino**

"Diskeeper continues to play an important role in keeping both client and server systems optimized for peak performance with minimal management. We see a daily benefit from the InvisiTasking feature, which keeps our system disks optimized using resources during idle times to ensure maximum performance with minimal impact to users.

"The Diskeeper Administrator allows us to keep our systems in check, minimizing interruption to users and optimizing IT maintenance activities.

"I would recommend Diskeeper to anyone responsible for maintaining computer systems."

**Eric Carel
Network Systems
Supervisor, Baldwin Filters**

"Diskeeper is an absolutely great product that our company has been using for about 4 or 5 years now. The original product we started using was good but nothing like Diskeeper. This program is simply amazing. It is so lightweight, easy to use and keeps the computers running like new. It is nice to work with a company that spends so much time and resources in getting their products to run as well as yours do.

"The results from use of Diskeeper by our test group were so obvious that we really didn't need to spend time on

finding out exact improvement numbers. I would say our performance help desk calls were affected the most. Those type of trouble tickets just do not happen anymore.

"Conewago has recycled computers every 4 years but now with the struggling economy we are letting computers go as long as we can and are finding computers that are more than 5 - 6 years old that are still running great with Diskeeper deployed.

"When I was first told about the new Automatic Defrag option in Diskeeper and how it would defrag the individual computers during the work day and the users would not even notice it running, I was skeptical, to say the least. I tried it on some of our biggest power users and didn't tell them I changed anything. A couple of weeks later I went to all of them individually and asked them if they noticed anything different about their PC's and every one of them said the computer had been running better than when it was brand new.

"Since then, we have deployed Diskeeper to all of our users and the HelpDesk calls have been drastically cut down. Now if I get a HelpDesk call about a slow computer, it's because somehow we forgot to install Diskeeper on the machine in the first place. Then we simply install, let it run and that fixes the problem they were having. In the end a smoother-running network of computers means my staff and I can spend more time on other things and be more productive with fewer interruptions from annoying help desk calls."

Adam Hicks - IT Manager



>>> HUGETECH BUNDLES ITS SSDs WITH DISKEEPER® 2009 WITH HYPERFAST.

"Diskeeper Corporation in Hong Kong has added a new OEM to its list of customers in Asia. This new OEM is Hugetech, an innovative company that sells Solid State Drives (SSDs) and other storage devices in the growing Chinese market under the ASAX brand.

"Hugetech and Diskeeper offer a great value to Chinese users looking for a quality SSD at an affordable price. Hugetech bundles its SSDs with Diskeeper® 2009 Home with HyperFast™ technology for SSD optimization. In this way, ASAX SSDs benefit from the improvements in performance and reliability that HyperFast provides and any other HDD used in the user's system is kept at its maximum speed with Diskeeper. The final result is a system that always runs at top speed while maintaining the maximum level of reliability in all the possible types of storage media used." - *Modesto Rodriguez- Executive Vice President, Global Strategic Alliances*

>>> MAJOR TECHNICAL BREAKTHROUGH IN WINDOWS BOOT-TIMES.

With boot up performance becoming a major purchase consideration for consumers, and even enterprises evaluating new desktop, laptop and netbook providers, Diskeeper Corporation announced a major technical breakthrough in the field of Instant On computing.

Even with increasingly more powerful hardware, the time it takes to boot Windows operating systems has increased. While Microsoft continues to make improvements, many vendors have offered alternative solutions that allow users to boot to alternate operating systems. But what if you could boot up Windows in the same time it takes to boot an alternate system? The pioneers of increasing computer performance have made the unimaginable come true.

Diskeeper Corporation is in the final production stages of a solution to speed the boot process of Windows based operating systems. Extensive tests performed on Windows XP utilizing different hardware from a variety of manufacturers, shows significant boot-time improvements on every system

tested, including cases where the boot process completes over 10 seconds faster. Tests on the Windows 7 Release Candidate demonstrated similar results. Improvements from this new technology translate into as much as 20% faster boot-times.

Manny Salinas, President of Diskeeper Corporation noted that "we expect to offer this solution to consumers and corporations alike, but a key initiative is to make this technology available directly to computer manufacturers."

Director of Product Management, Michael Materie added that "this is far more than a unilateral consumer technology, and has tremendous appeal to the global Windows community". By offering near-immediate boot up, corporations will be able to enforce green computing policies and cut energy costs significantly without lost productivity. Materie concluded that "Workstations can now be powered off at night without incurring the lost production the following business day as users power up the system and then go get coffee."

Diskeeper Corporation believes that the dramatic improvement in boot times will provide a high-demand product differentiation to system builders. EVP of Business Strategy, Modesto Rodriguez, confirmed that "We expect to see this technology shipping from OEMs in Q3 of this year as we already have numerous household brand computer OEMs who have expressed significant interest and are moving forward."

>>> DISKEEPER®2009 SERVER/ADMIN RECEIVES STELLAR REVIEW FROM IT PRO UK MAGAZINE.

"With all serious competition falling by the wayside over the past few years, Diskeeper is now in the enviable position of having virtually no competition in the disk defrag market. Businesses that are convinced of the need to keep their servers and desktops regularly defragged need look no further as Diskeeper 2009 is an accomplished product and the Administrator component provides slick centralised management."

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Premier Treatment For Our Valued Customers

Customers are taking advantage of our special enterprise licensing program called the **Diskeeper Corporation Premier Customer Program**.

Find out how to join the growing list of companies that are putting Diskeeper Corporation software on every system at their site!

Call to see if you qualify for special volume license pricing and incentives, and our award-winning personal tech support. Speak to your corporate account representative, or have your preferred reseller contact us. **800-829-6468** code **4218** or email us at **premier@diskeeper.com**

