

V-locity[®] Endpoint

Keep Business PCs Running Better Than New

Overview

Everyone knows the frustration of a Windows[®] laptop, desktop or workstation becoming progressively slower the longer it is used and burdened with more software and data. Companies lose productivity from their employees, hardware refreshes occur sooner than they should, and the IT staff gets inundated with performance HelpDesk calls.

ConduSiv's V-locity Endpoint keeps Windows PCs running better than new by reducing the amount of I/O to disk with its patented DRAM caching technology and patented prevention of performance-robbing fragmentation to ensure defragmentation processes never have to be scheduled.

Typical defragmentation utilities have to be scheduled, consume nearly all resources to operate, and only deal with the problem after the performance penalty has been incurred from data being scattered around a volume in random blocks, which takes more I/O operations than necessary for any file that should otherwise be written and read in a sequential state.

V-locity Endpoint is the only proactive solution that solves the problem in real-time while running transparently in the background with near zero overhead. V-locity Endpoint uniquely prevents nearly all fragmentation from occurring at the Windows level, before files are written in a performance-penalized state with its proprietary IntelliWrite[®] technology. This ensures all files are written and read in an optimum, sequential state so defrag processes never have to be scheduled. As a result, seek times on mechanical drives are greatly reduced along with the number of I/Os required to write or read any given file for both HDDs and SSDs.

V-locity Endpoint is much more than fragmentation prevention software, which makes it the next evolution in technology beyond Diskeeper[®] 12 Professional. V-locity Endpoint takes performance enhancement to another level by bundling proprietary IntelliMemory[®] technology that leverages a behavioral analysis engine to cache active data within available system memory to improve the response time of applications and files, which further reduces the amount of I/O traffic sent to disk or solid-state drives beyond IntelliWrite. IntelliMemory is a dynamic read cache, so it only uses memory that is available and immediately serves back any memory requested by the application, so there is never an issue of memory contention.

IntelliWrite fragmentation prevention keeps Windows systems running like new. IntelliMemory caching technology keeps PCs running *better* than new. With fewer I/O operations required to read or write any given file on HDDs and SSDs, organizations achieve more productivity from employees, extend the lifecycle of existing hardware, and free IT staff from persistent HelpDesk calls.

Keeps Business PCs and Laptops Running Like New

Most notably, V-locity Endpoint's low overhead and InvisiTasking[®] resource monitoring ensures all optimization occurs without hampering system resources, so users can continue working while V-locity Endpoint runs in the background. Maintenance tasks, like defrag, are usually scheduled during off-hours to avoid impact on performance. However, if systems are shut down, maintenance activities fail to run, creating a bigger headache over time. And if the utility runs during business hours, the PC is rendered useless until defrag operations are complete. InvisiTasking monitors resource consumption on a Windows system (disk, memory, network and CPU usage) and uses only resources that are otherwise idle, so V-locity Endpoint runs invisibly with no intrusion on system resources.

V-locity Endpoint monitors volumes for files that are impacting performance and deploys the Instant Defrag[™] engine to consolidate the few remaining fragments on hard drives that were not eliminated by IntelliWrite. As a result, IT no longer needs to schedule disk maintenance: with V-locity Endpoint, optimization is proactive and continuous, with no negative impact on system resources.



V-locity Endpoint includes HyperFast[®] SSD optimizing technology for faster performance from solid-state drives. HyperFast consolidates file system free space so the SSD can better pre-stage contiguous logical space for write and erase blocks. This improves the speed of SSD writes without causing excessive SSD wear, which normal free space consolidation and file defragmentation would cause.

For IT professionals who need to deploy V-locity Endpoint across a fleet of laptops or workstations, the Diskeeper Administrator console allows for seamless network deployment. For corporate PCs, V-locity Endpoint is the only highly efficient, proactive, Set It and Forget It[®] software for maximum performance—making it the #1 utility for keeping Windows systems running better than new.

V-locity Endpoint Benefit Analyzer

V-locity Endpoint is bundled with self-auditing benchmark software that provides a before-and-after performance comparison during initial deployment to help IT administrators quantify the value of V-locity Endpoint. All key metrics needed to establish a “proof of concept” are report-ready, showing metrics based on real-world use. Although administrators can run their own tests, the Benefit Analyzer provides an easy way to validate performance and understand more about the I/O profile on any given system.

A Toolkit of Proactive & Highly Efficient Technologies

IntelliWrite[®] write I/O optimization technology automatically prevents split I/Os (unnecessary I/Os) from being generated when a file is broken into pieces, or fragmented, before being written to disk.

IntelliMemory[®] read I/O optimization technology intelligently caches active data within available system memory to boost response times of applications and files.

InvisiTasking[®] intelligent monitoring technology allows all V-locity “background” operations within the system to run with zero resource impact on current activities.

HyperFast[®] SSD optimizer technology produces faster performance in solid state drives running on Microsoft operating systems. The HyperFast feature includes TRIM functionality and is enabled only if a solid-state drive is recognized.

HyperBoot[®] technology speeds boot times by strategically moving files into sequential order on hard drives to minimize the number of I/O requests and random I/Os during the boot process.

Instant Defrag[™] monitors volumes for any remaining file fragments that were not eliminated by IntelliWrite.

Disk Health Monitoring leverages S.M.A.R.T data to notify admins when disk failures may be imminent.

Enhanced reporting displays health and performance gains for the system. Reports include: Before/After Benefit Analyzer report, Recent activity report, and 7-day history.

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V-locity Endpoint Benefits

- Improves response time and eliminates unnecessary I/O operations
- Proactively eliminates performance-robbing fragmentation
- Eliminates the need to schedule disk maintenance during off-hours
- Easily deploys to hundreds of PCs via a central management console
- True “Set It and Forget It” functionality
- Extends the life of corporate laptops and desktops
- Increases business productivity
- Continuous background optimization without hampering resources

Supported Platforms

Windows versions 7, 8, 8.1, 10

System Requirements

100MB of available hard drive space, standard operating system requirements. 4GB of RAM is required for IntelliMemory caching to operate. For the full listing of technical specifications, see www.conduSiv.com/v-locityendpoint.

More Information

www.conduSiv.com

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