



Fast Data. Fast Throughput. Fast IO. **Guaranteed.**

Overview

DymaxIO is fast data software. It is the most cost-effective, easy, and indispensable solution for increased throughput and accelerated I/O performance, so systems and applications run at peak speed. *DymaxIO* utilizes AI (artificial intelligence) to detect and deploy the appropriate performance enhancement technologies for the exact individual system so organizations can boost performance without overspending on hardware.

DymaxIO eliminates the two big I/O inefficiencies in Windows environments that generate a minimum of 30-40% of noisy I/O traffic causing performance and reliability problems. By installing *DymaxIO*, organizations can expect an immediate performance boost in virtual environments, MS-SQL workloads, Oracle on Windows, ERP, VDI, EHR (MEDITECH), Business Intelligence (BI) apps, CRM, Exchange, SharePoint, file servers, backup, and more.

If you want fast data, you want *DymaxIO*. No new hardware and no reboot necessary.

There are 2 severe I/O inefficiencies that cause performance and reliability problems. First, is caused by the behavior of the Windows file system. It will tend to break up writes into separate storage I/Os and send each I/O packet down to the storage layer separately and this causes I/O characteristics that are much smaller, more fractured, more random than they need to be.

Second is storage I/O contention, also known as the I/O Blender Effect, which happens when you have multiple systems all sharing the same storage resource. Your performance is penalized twice by these storage I/O inefficiencies causing systems to process workloads about 50% slower than they should.

DymaxIO dynamically accelerates data for maximum I/O performance. By solving I/O inefficiencies at the source, *DymaxIO* improves application performance, increases throughput 30-40%, reduces latency, increases VDI capacity, reduces timeouts and crashes, shortens backups, improves data transfer rates and extends hardware lifecycles.

DymaxIO contains thin file system drivers, that installs (no reboot required) on Windows VMs or physical servers and performs optimizations inline automatically while running transparently in the background with near-zero overhead to the server. What little CPU cycles are needed run at lowest priority so as not to interfere with server operations in the event that CPU cycles are needed by other applications or processes.

DymaxIO contains a suite of patented technologies that optimize the Windows Storage I/O subsystem so that applications can get to and from the storage layer much faster and process a lot more data.

Some organizations may react to performance challenges by throwing expensive new hardware at the problem. Overbuying and overprovisioning for more IOPS or data throughput might mask the underlying problem for a while, but it does not solve root cause of performance issues. The quickest, most inexpensive, and least disruptive approach to more performance is simply installing *DymaxIO* fast data software on all of your Windows systems and watching performance problems disappear.

I/O Inefficiencies that Rob Performance

Enabling Fast Data and Boosting Performance

Provides seamless deployment and centralized management. Enjoy fast, non-disruptive deployment even in the most complex environments - No reboots required. Easy management across a wide range of environments and locations. I/O performance monitoring gives administrators visibility into key I/O metrics to explain workload behavior across different applications—greatly reducing the burden of troubleshooting and tuning for performance.



DymaxIO Benefits

- / Faster performance for Windows Servers, desktops, and laptops
- / Better application performance
- / Fast SQL and database performance
- / Fast data transfer rates
- / Increased throughput and reduced latency
- / Fast file reads and writes
- / Optimal performance from your storage, HDDs and SSDs
- / More reliable Windows Servers, desktops, and laptops
- / Reduced timeouts, crashes, freezes, hangs
- / Reduced file corruption and data loss
- / Reduced “phantom” IT issues
- / Reduced user support calls
- / Extended hardware lifecycle
- / Increased VM Density
- / Faster backups allowing backups to complete in named window’s timeframe
- / Reduced network traffic, increasing your network bandwidth for other work
- / Reduced cloud compute costs
- / Overall increased system and network-wide efficiency due to increased performance, reliability, longevity, and energy conservation
- / True “Set It and Forget It”® management
- / Compatible with all SAN/NAS and hyperconverged systems
- / Deploys to hundreds or thousands of servers with just a few clicks – no reboot required
- / “Time saved” reporting dashboard to validate benefits
- / Enterprise-wide visibility into I/O performance health from the operating system to storage

Supported Platforms & Configurations

DymaxIO is both hypervisor and storage agnostic. *DymaxIO* is compatible with any system that is compatible with Windows and improves the efficiency of all VMware ESX/ESXi, Hyper-V, and Xen platforms supported by SAN/NAS storage, Hyperconverged storage, local storage, SSDs, all-flash, or cloud storage like Azure or AWS.

DymaxIO installs on all Windows systems and supports Windows 7, Windows 8/8.1, Windows 10, Windows 11, Windows Server 2008 R2, Windows Server 2012 (or R2), Windows Server 2016, Windows Server 2019, and Windows Server 2022.

Required Memory: 3GB of physical memory per VM or physical server

Recommended Memory for Optimum Caching: 4GB of available physical memory per VM or physical server.

If running on MS-SQL: Add up to 16GB of DRAM for blazing results, then cap SQL memory usage leaving the additional memory leftover for the OS and *DymaxIO*. If no additional memory is available, cap SQL memory usage leaving 8GB for the OS and *DymaxIO*.

Recommendation: Optimum results will not be achieved unless (1) systems have adequate memory and (2) the software is installed on each VM on the same host. Since each Windows VM generates a minimum of 30-40% unnecessary I/O traffic, it is imperative to install *DymaxIO* on all the VMs on the same host. If installing on 10+ servers, simply request the centralized management console from sales@condusiv.com to push the software out to as many servers as desired.

Condusiv Management Console UI supports IE 11. CMC master node installs on physical servers and VMs and supports Windows Server 2019, Windows Server 2016, Windows Server 2012 64-bit, Windows Server 2008 R2, 64-bit.

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About Condusiv

Condusiv Technologies makes software that makes Windows servers faster and more reliable. Condusiv’s software is designed for virtual, cloud, and physical server environments, enabling systems to process more data in less time for faster application performance.

More Information

Purchase: DymaxIO is available as an annual subscription SaaS model. To buy online or find a reseller, visit condusiv.com/purchase

Contact: To speak with a solution specialist in your region, visit condusiv.com/contact

Case studies & Documentation: visit condusiv.com/resources

To learn more: visit www.condusiv.com/dymaxio