

## V-locity VM Customer Testimonials

"The ConduSiv V-locity product has consistently increased the performance of our VM's. These noted performance gains are even more readily apparent to our administrators through usage of the new Benefit Analysis functionality. This feature not only allows us to more easily generate reports that visually show the benefits of the product but it also provides us with great documentation for demonstrating the benefit of V-locity VM to our managerial staff. For example, one of our Remote Desktop Session host servers experienced a 190% improvement in normalized I/Os per second while latency was reduced by 190% as well. We particularly like the IntelliWrite technology."

**Bryan Stephens, Technology Services Specialist, RAS120/Information Technology Angelo State University, Member, Texas Tech University System**

"After installing V-locity, I was surprised to see that it does much more than ever expected. Obviously it does optimization but also offers two killer features that are only available on high level SAN's. These include RAM caching and the automatic zeroing out of unused data blocks.

**RAM caching** - Expensive SAN's use SSD to cache disk IO. But the full data bandwidth still needs to move over the wire to get to the disks. Once the data is written to a SAN, only then is it moved to the cache. This means the iSCSI/FC adapters can still be a bottleneck. Or for locally attached storage, depending on the type of disk pool, the bottleneck might still be at the controller.

**Thin-Provisioning and the zeroing out unused blocks** – SAN's can have trouble reclaiming space for thin provisioning. Deleted data may be marked by the OS as such but the SAN doesn't necessarily know that the data sitting in the block is no longer needed. It doesn't read minds, therefore it's unable to reclaim the space and Thin Provisioning becomes 'Not-so-thin Provisioning'. Over time this could lead to a tremendous amount of wasted, and very expensive, LUN space.

"These two features improve three key areas:

- Disk performance
- Controller / HBA bandwidth
- Disk space

"This product reduces the need to purchase additional SAN disk space and even avoid an upgrade to a more expensive SAN. Plus it's easy to give V-locity a try to see if hardware upgrades are even necessary."

**Bill Louth, Senior Systems Administrator, TSG Resources, Inc.**

“V-Locity VM does for virtualization what Diskeeper did for desktops and normal server workloads. This truly is a set-and-forget system. Even after submitting the requested testing materials, I forgot the thing was running in the background working its magic. It has such a low footprint, I didn’t notice. We had one server show a 40% I/O response time improvement, with 65% IOPS improvement. This came to be the new normal. On one server I had 91% of fragments prevented or eliminated! That saves me from running a defrag after hours that would take a lot of time, and cause tremendous I/O overhead.

“I love the Benefit Analyzer benchmark tool for a “before” and “after” comparison. It makes my pitch to administration easier.”

**Chris Gahlsdorf, System Administrator, Northwest Human Services**

“V-locity VM increased the performance on my virtual desktops. On average, latency was reduced from 4.81ms to 1.69ms largely due to the new IntelliMemory Caching technology in V-locity. V-locity also aids in managing the virtual disk with IntelliWrite which prevents the OS from breaking apart files, writing them in a performance penalized manner. It also helps recover unused space which allows for better density on my network storage.”

**Ken Christman, MIS Manager SERA Sustainable Design for the Built Environment**

“The file server has the users' My Documents, and Desktop redirected to it. I tried the Windows built-in defrag with numerous problems. It would literally take days to run and still not defrag the drives properly. V-locity deployed seamlessly to proactively eliminate fragmentation from even occurring. With V-locity’s new suite of features, the I/O on our drives is better than ever! We no longer see any latency issues when accessing any of the files.”

“I really enjoy the Benefit Analyzer benchmark to see how well the system is now running. The Benefits Analyzer reports are great at giving me the most up-to-date information all in one location. This makes it very convenient.

“Another superb product from ConduSiv Technologies!”

**Brandon Butler, IT Manager, Professional Medical Services**

“V-Locity had a very noticeable impact on the performance of my virtual Exchange and web servers. V-Locity saved 10% of the I/O’s from ever going to the drive. It also improved the average I/O response time by 43%! My Exchange server is noticeably faster.

“I can’t wait to install this on ALL of our virtual machines. V-Locity proactively increases I/O performance on virtual servers and pays for itself many times over! For our physical boxes we have Diskeeper to improve performance. These are two VERY good products.”

**James Wood, Systems Administrator, Game Development**

“The Benefit Analyzer Report was really impressive and I am looking forward to switching out my Diskeeper Servers to the V-locity product. My Infrastructure is almost exclusively virtual now and I have been waiting for this product to mature. The report I got from the Analyzer showed me that my hosts could be performing a lot better in terms of memory and storage when used with V-locity.”

**Juan J. Saldana II, Network Supervisor, Information Technologies, Keppel AmFELS**

“V-locity is an excellent set-and-forget product that greatly increased the performance of our Hyper-V VM's. Not only does it perform exceptionally, but it has excellent reporting features showing the system improvements. I love it!”

**Brad Buckles, IT, JBS USA**

“V-locity increased the application performance on my VMs dramatically, using VMware ESXi 5.0. I/Os per second jumped 56% while latency was reduced by 36% on my Lotus Notes Mail Server. My file and print, Terminal, and SQL Servers have significantly benefited from this software. Since V-locity operates in the file system layer, I/O is optimized before it reaches my network storage. The best part is getting this much performance without having to buy expensive hardware.”

**Roberto Delvecchio, Creative Office Pavillion**

“I saw how quick & easy the install of V-locity was, and I was very glad that I didn't notice any negative impact on my work computer. The Benefits Analyzer reporting tool was useful in showing me the increased performance I was getting with 12% increased I/O and 33% decrease in fragmentation. It was obvious to me that ConduSiv spent a significant amount of time developing the user interface for the day-to-day users comfort and understanding.”

- 12% Average I/O Response time
- 20% I/Os cached (IntelliMemory)
- 90% Fragments prevented or eliminated

**Intel System's Administrator, ITS/Administrative Information**

“The improvement in performance from installing V-locity, was measured by individual experience, conjecture from the IT people using this product, versus users not using this product in our testing environment. V-locity showed increase in performance as dramatic as cutting latency by 50% (30.0 ms to 15.0ms).”

**Adam Williams, System Architect/Application Developer, Aventura**