

Panzura for Manufacturing Firms

As a Manufacturing firm, you rely on fast, efficient collaboration across sites to remain competitive in the global economy. Your designers and engineers need to access shared project files quickly from anywhere in the world, so CAD and CAM applications need to work as well across offices as they do within a single office. PDM solutions are great for managing product data, but don't solve the poor performance of accessing files over a WAN and still creates file management headaches when users create duplicate copies.

Project complexity and file storage requirements have grown exponentially in manufacturing, especially as CAD and CAM applications become more widely used. You've tried faster storage, more bandwidth, WAN optimization, file sync and replication, and other approaches. But it still takes too long to share design and project files across sites. You also need to manage file consistency for design, production and parts data, and need to make sure your core IP is secure.

With Panzura, CAD and CAM applications work as well across distributed teams as they do within a single office. Panzura works with manufacturing companies to solve the performance challenges they face running SOLIDWORKS, Siemens NX, and other CAD and CAM modeling applications. Our Global File System integrates with the cloud to deliver centralized, protected and secure storage for your critical design files, while giving users a LAN-like experience in every office.

Panzura for Manufacturing: Speed Up Design Cycles and Improve Productivity

There's a better way. With Panzura, your distributed CAD and PLM project teams can work across sites as though they're in the same room. With Panzura, you can:

"Before Panzura, one of our engineers once spent more than an hour to download a small 82 megabyte video. When Panzura was installed, he downloaded that same video and was able to view the file instantly. He told me it just 'flew off' the Panzura."

*—Alan Musser, Systems Engineering Supervisor,
Milwaukee Tool*

- Accelerate collaboration. Panzura eliminates the "file open" problem that can leave users waiting. File opens take seconds, not minutes or hours.
- Get the right people on the right project. You can increase project efficiency by pulling in project team members with the right skills – no matter where they live. No more bench time.
- Eliminate the "versioning" problem. Our Global File Locking lets teams work on the same file at the same time without stepping on each other's toes.
- Run all your applications more efficiently than ever. Panzura works seamlessly with most major CAD and CAM applications, whether or not you're using PDM software.
- Reduce infrastructure costs by up to 90%. By connecting you securely to the cloud, Panzura eliminates the need for costly, redundant infrastructure in each office.
- Secure your design data with security three-letter agencies trust. Panzura is FIPS 140-2 certified with AES-256 bit encryption, so your design data is secure at rest and in-flight, whether it's on a local controller or in the cloud. Access to the latest version of any file from any location at any time with little to no latency.



The Panzura Global File System (GFS) connect users in different offices around the world and lets them collaborate like they're in the same room on the same files and applications at the same time. It eliminates cross-site performance issues for CAD and CAM applications, giving users NAS-like performance at every office. It's as fast as a local file server in every office, but users are all accessing the same files – no matter where they're based.

The Panzura Global File System looks just like a global, locking Windows filer to users, but is backed by a central cloud repository and can span dozens of sites. It's simpler, faster and less expensive than putting traditional storage at each site and running WAN optimization over private networks.

Accelerate Collaboration

Manufacturing project files include hundreds or thousands of files requiring thousands more file system transactions, such as opens, lookups, locks, closes, and unlocks. Milwaukee Tool, a leading manufacturer of professional, heavy-duty tools and accessories, was no different. As the company discovered, more than 90% of the delay was associated with numerous roundtrips being made to the data center for specific file operations. The farther the office, the more acute the problem. Panzura solves this problem, reducing file open times from 40 minutes to 30 seconds for CAD/PLM files and from 7 hours to 20 seconds for multi-gigabit 4000 frame per second video files.

The table below shows specific time comparisons for opening files with Panzura and without Panzura as experienced by Milwaukee Tool.

	Without Panzura	Panzura
File Size	476 KB	476 KB
Round Trip Latency	250 ms	250 ms
File Open and Lock Packets	5.87 minutes	0.7 seconds
File Close and Unlock Packets	5.71 minutes	0.69 seconds
File Look Up Packets	14.43 minutes	1.73 seconds
Read Data Packets	1.72 minutes	0.21 seconds
Total Time	28 minutes	3 sec

Get the Right People on the Right Project

A single project team can consist of skilled professionals geographically distributed across multiple offices. Panzura provides “People Virtualization” by enabling Manufacturing firms to hire employees anywhere around the globe, optimizing expertise wherever it exists rather than having to rely upon the resources of a single location or the relocation of employees to a different office.

Eliminate the “Versioning” Problem

With Panzura, distributed teams can collaborate together like they are all within the same office. Project teams using SolidWorks, AutoCAD, and other CAD/CAM applications no longer have to worry about file integrity/corruption issues or file replication. The local Panzura controller owns the lock for the chosen file, reducing sync times and increasing productivity. While only one location can write to a file at a

time, every team can continue to work on the project at the same time. Read more about Panzura's Global File Locking.

Run All Your Applications Efficiently

Panzura enhances the cross-office performance of CAD and CAM applications such as SOLIDWORKS, AutoCAD, and Siemens NX. Panzura also serves as the global file system for nearly every other application in a firm's portfolio, even multi-user spreadsheets, across office locations.

Reduce Infrastructure Costs by up to 90%

Moving project, design and file data to the cloud through Panzura eliminates the need for expensive file servers, WAN optimization, tape backups, tape infrastructure, and associated backup software. At the same time, firms have access to unlimited storage growth while being able to access their files at any time.



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