

Nasuni and Microsoft for manufacturing

The unstructured data platform for modern manufacturing

/ UNIQUE CHALLENGES FOR IT IN MANUFACTURING

The manufacturing sector faces unique challenges compared to other industries, and IT leaders must retool their infrastructure to be resilient enough to withstand uncertainty and unexpected shocks. This sector is undergoing upheaval and disruption with supply chain vulnerabilities, economic uncertainties, and political destabilization. Additionally, ever-aggressive ransomware targets manufacturers and vulnerable suppliers for millions of dollars in ransom.

At the same time, workflows and product lifecycles are undergoing digital transformation. Employees, subcontractors, suppliers, and consultants from multiple locations worldwide need to share critical information across the supply chain. They work on product lifecycle management applications (PLM) such as Siemens Teamcenter to CAD/CAE applications and 3D modeling applications such as SOLIDWORKS and Siemens NX. These applications, IoT-connected machines on the factory floor, and smart factory tools generate never-ending and ever-growing quantities of unstructured data that must be stored, protected, shared, and archived.

At-a-glance benefits

- Built-in ransomware resilience
- Simple, cost-effective capacity management
- Fast, global file access at every site
- AI-ready manufacturing data

Typical manufacturing use cases

- Global CAD and PLM collaboration without version conflicts
- Replacing legacy file infrastructure across sites
- Secure access for teams, partners, and suppliers

Customer spotlight

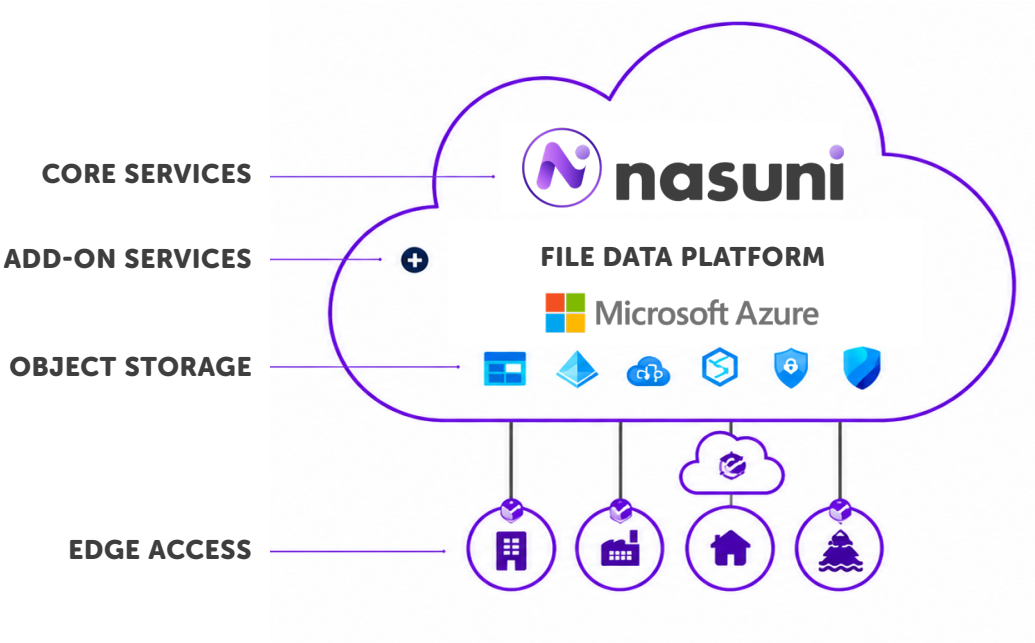
A large, global silicon chip manufacturer out-grew their Windows File Server storage infrastructure and replaced it with the Nasuni File Data Platform that:

- Global CAD and PLM collaboration without version conflicts
- Replacing legacy file infrastructure across sites
- Secure access for teams, partners, and suppliers

Unfortunately, traditional file storage infrastructure (Windows File Servers, NAS, backups, DR, WAN sync, etc.) was not designed to contend with these challenges. They have become complex, with a patchwork of systems, tools, access points, and consoles, making them costly and vulnerable to external threats. For modern manufacturing, unstructured file data must be instantly accessible, globally consistent, and fully protected, not just for people, but for the AI systems increasingly driving manufacturing innovation.

> "As we talked to more reference customers, we decided that Nasuni was the more mature, reliable, and advanced product."
>
> **ANONYMOUS INFRASTRUCTURE ARCHITECT**

/ THE NASUNI FILE DATA PLATFORM



DEEP INTEGRATIONS WITH MICROSOFT

- **Azure Blob Storage**
- **Azure AD**
- **Azure AI**
- **Azure Analytics**
- **Microsoft Sentinel**
- **Microsoft Defender**

/ A NEW CLOUD APPROACH FOR MANUFACTURING

Nasuni is the unstructured data platform for enterprise manufacturing, powering the operational file layer where engineering, production, and plant operations run. The Nasuni File Data Platform replaces legacy NAS, file servers, backup, and replication systems with a single, cloud-native global file system, fully governed, protected, and high-performance by design. Nasuni consolidates file data in easily-expandable, highly-durable Microsoft Azure Blob Storage at a fraction of the cost of on-premises or other cloud solutions while eliminating cloud latency with its unique architecture. The Nasuni approach to fusing cloud object storage with enterprise file services creates a scalable, innovative platform for digital acceleration, business growth, and data insights previously unachievable with traditional file storage.



/ PURPOSE-BUILT FOR MODERN MANUFACTURING

Unlimited file storage

Nasuni uses the native scalability of cloud object storage to provide durable, protected capacity to any number of manufacturing locations and users.

Secure, external access, without VPNs

Nasuni Access Anywhere delivers high performance file access for remote and hybrid users and productivity tools that let them manage and share files from anywhere.

Ransomware detection and protection

The Nasuni Ransomware Protection service provides a highly-effective and integrated solution for protecting, detecting, and recovering from ransomware at the edge before it infects an entire environment.

Multi-site collaboration

The Multi-Site Collaboration service provides faster data propagation and reduced version conflict and productivity loss across multiple locations for any size files.

Built on Microsoft Azure

Nasuni consolidates file data in highly-durable, infinitely scalable Microsoft Azure Blob Storage, in the Azure regions closest to the users and applications that need them — keeping costs low and performance high.

Unlimited backup and rapid restore

Nasuni Continuous File Versioning™ makes file backups frequent and automatic with predictable RPOs and RTOs. Millions of files can be restored in minutes to every location.

Near-zero cloud latency

Nasuni Edges are extremely efficient virtual appliances that provide up to a 98% cache hit rate, giving users and applications LAN-speed access to files. Nasuni Edges reduce the file storage footprint by up to 90%, lowering costs and eliminating time spent managing local file servers.

Global file synchronization

File synchronization provides automated, nomaintenance synchronization of millions of file changes per hour. The result is increased productivity for the whole organization without an expensive infrastructure investment.

AI-ready manufacturing data

Nasuni ensures manufacturing file data is unified, governed, and accessible, making it ready for AI-driven use cases across engineering, quality, and operations. With built-in permissions, versioning, and global access, the same data foundation that powers teams also enables AI to operate securely and at scale.

nasuni

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Nasuni is the file data foundation for large enterprises where files are mission-critical for both people and AI. The work that drives modern organizations lives in files, the most operationally critical segment of unstructured data, including designs, project documentation, financial and compliance records, media assets, and the countless versions that evolve across distributed teams.

We help our customers manage, protect, and activate that content so IT can continuously reduce cost and risk, while teams and the AI that supports them become more productive through fast, governed access to the right information when and where they need it.

Unlike tools that focus only on data storage, backup, collaboration, or analytics, Nasuni operates at the source of truth for enterprise files — the foundation enterprise work depends on.