

# NASUNI SYNCHRONIZE

The modern, cloud-based solution for sharing files across any number of locations.

## Solution Overview

NASUNI SYNCHRONIZE is the modern, cloud-based solution that enables seamless file sharing across any number of locations. NASUNI SYNCHRONIZE is part of the Nasuni® Cloud File Services™ product family, a consolidated platform that enables enterprises to store, protect, synchronize, and collaborate on unstructured file data at scale, and that automatically reduces costs as files age so data never has to be migrated again.

With NASUNI SYNCHRONIZE, business users across all offices and remote sites enjoy fast access to the latest versions of both active and archived files. IT is relieved of the pain of managing MPLS, distributed file system replication, large file transfer, WAN acceleration, and other tools that add unnecessary cost and complexity.

**NASUNI PRIMARY** is primary file storage, backup, and disaster recovery for traditional NAS and file server workloads.

**NASUNI ARCHIVE** is affordable long-term file retention and rapid retrieval for cool file workloads.

## What is NASUNI SYNCHRONIZE?

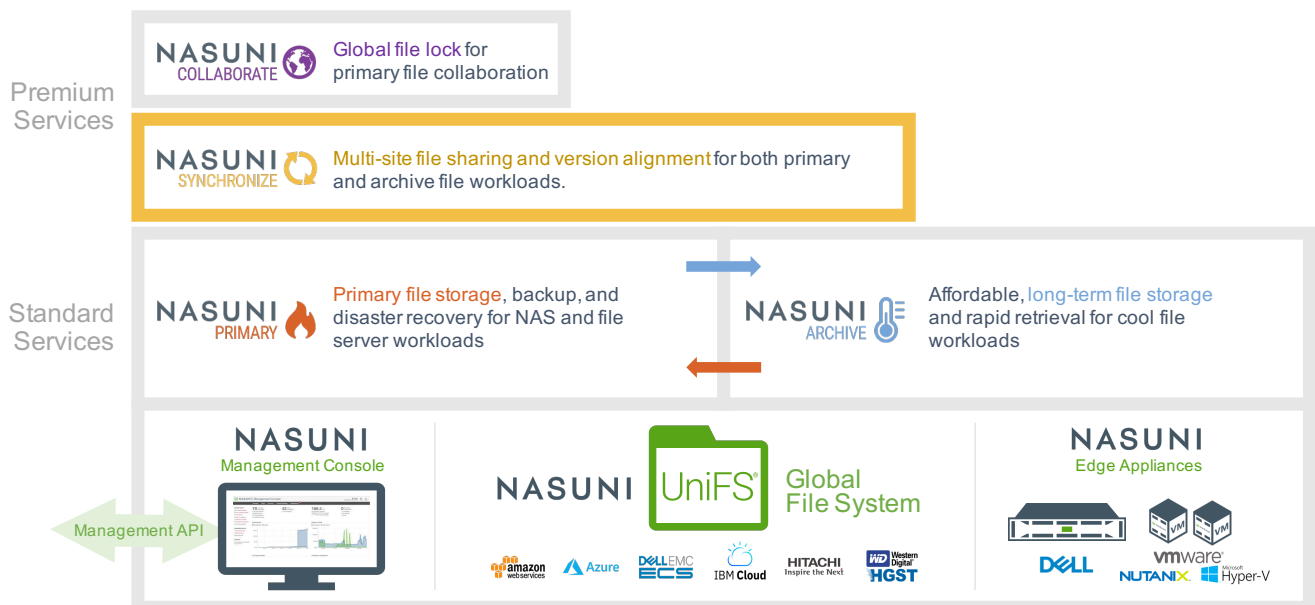
Traditional file servers and NAS devices with device-based file systems were designed to share files in a single location. Enterprises that need multi-site file sharing try to implement remote access or replication solutions, only to be faced with higher costs, storage duplication, latency issues, and hard-to-maintain scripts.

NASUNI SYNCHRONIZE, powered by Nasuni's cloud-based UniFS® global file system, uses public and private cloud (on-premises) object storage and internet links to seamlessly share files across any number of locations, while maintaining fast, local file access.

NASUNI SYNCHRONIZE is a premium Nasuni service that requires NASUNI PRIMARY or NASUNI ARCHIVE as prerequisite purchases.

**NASUNI SYNCHRONIZE** extends the NASUNI PRIMARY and NASUNI ARCHIVE services with seamless file sharing across any number of locations.

**NASUNI COLLABORATE** extends NASUNI PRIMARY and SYNCHRONIZE with the ability to globally lock files.



NASUNI SYNCHRONIZE is a premium offering of the Nasuni Cloud File Services platform. It requires the NASUNI PRIMARY and/or NASUNI ARCHIVE services as prerequisite purchases.

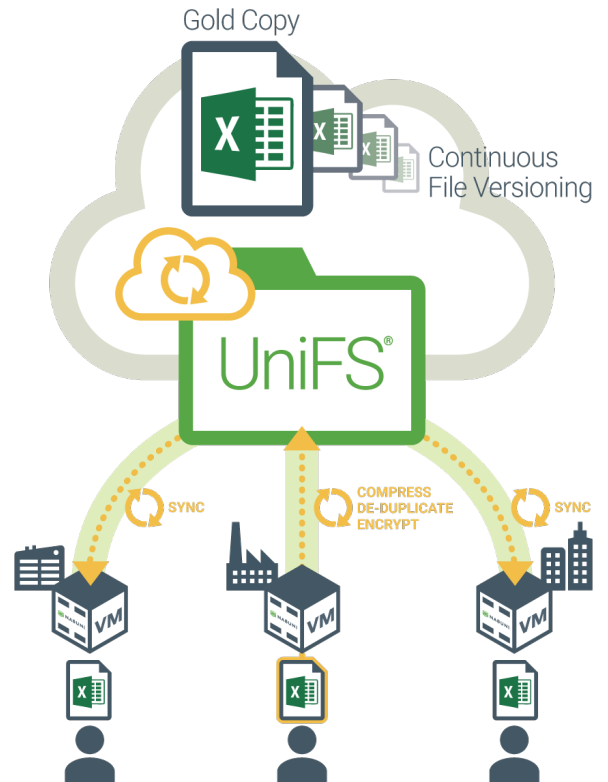
## How Does NASUNI SYNCHRONIZE Work?

Modern enterprises are adopting object storage for its low cost, scalability, and durability advantages over traditional disk storage. To make object storage suitable for storing files, a file system is needed. However, because object storage is typically adopted by organizations with growing storage needs and multiple offices, an object-storage based file system must be capable of spanning locations.

NASUNI SYNCHRONIZE is powered by Nasuni’s patented **UniFS global file system**, the first and only file system architected to use public or private cloud object storage instead of block devices as the authoritative source of files and metadata. Nasuni UniFS extends to any edge location through virtual or physical Nasuni Edge Appliances that cache actively used files and metadata for high performance access.

Any time a file is created or modified, it is compressed, de-duplicated, and encrypted, then propagated to cloud object storage where the “gold copy” is stored as objects. The file changes are then propagated to all other edge appliances that have cached the file so users in all locations are always working on the latest file versions at local LAN speeds.

The use of cloud technology allows for a design that is globally available, infinitely scalable, and transparent to users and IT administrators. Users in all locations will feel like they are mapped to one massive, local file server. IT will centrally manage all distributed appliances as a collection, instead of one at a time.



*UniFS is the first file system designed to scale natively inside cloud object storage and securely propagate file changes to any number of edge locations. When used with public cloud object storage, files are securely propagated using public internet links to offload file traffic from the WAN.*

## Specifications

<b>Cloud object storage</b>	<b>Public Cloud:</b> Amazon S3; Azure Blob; Dell EMC Virtustream; Google Cloud Storage <b>Private Cloud (On-Premises):</b> Dell EMC ECS; Hitachi Object Storage; IBM Cloud Object Storage; Western Digital ActiveScale
<b>Number of locations</b>	Unlimited – files can be synchronized across any number of locations
<b>Number of files</b>	Unlimited – any number of files can be synchronized
<b>Security</b>	All synchronization traffic encrypted using the AES 256 standard, with customer-controlled keys
<b>Traffic</b>	Use of public internet links for data propagation offloads file synchronization traffic from WAN when Nasuni is used with public cloud object storage
<b>Propagation time</b>	1-5 minutes per edge appliance, depending on internet connections and bandwidth
<b>Access</b>	CIFS, NFS, and HTTPS protocol integration for file access and broad application compatibility; Active Directory and LDAP integration for local file authentication
<b>Version control</b>	File changes from all locations are stored as independent WORM versions in cloud object storage to ensure no data is ever lost; Nasuni Global Volume Manager™ technology aligns all versions using date/time stamps
<b>File lock</b>	Optional NASUNI COLLABORATE premium service with Nasuni Global File Lock™ technology ensures only one user can modify any given file at a time for multi-site collaboration without version conflict
<b>Management</b>	Synchronization is automatic; edge appliances in all locations centrally administered through Nasuni Management Console (NMC)
<b>Licensing</b>	Priced per TB; annual subscription; requires NASUNI PRIMARY and/or NASUNI ARCHIVE as prerequisite purchases; cloud object storage purchased separately



## How Does NASUNI SYNCHRONIZE Align Business and IT Objectives?

NASUNI SYNCHRONIZE enables business users to:

- Access the global file system and shared files from any location for improved productivity.
- Transfer files to remote offices to take advantage of locations with excess capacity, special expertise, and/or lower operating costs.
- Access and write to archive storage from any location.
- Share corporate files with new or recently acquired offices quickly to accelerate their integration into the business.
- Collaborate on files without version conflict to avoid data loss and improve productivity (requires **NASUNI COLLABORATE** premium service).

NASUNI SYNCHRONIZE enables IT professionals to:

- Minimize the need to purchase and manage WAN acceleration, distributed file server replication (DFS-R), remote access, and file transfer tools.
- Achieve cloud-first objectives by moving traditional NAS and file server workloads to cloud object storage.
- Consolidate cross-office primary file storage and archive file storage in a single unified platform.
- Implement remote office and branch office file (ROBO) file infrastructure that is scalable and easy to administer.
- Reduce remote office backup and disaster recovery costs traditionally needed to support distributed file sharing.

## About Nasuni

Nasuni provides the first multi-cloud platform that enables enterprises to store, protect, synchronize, and collaborate on unstructured file data as it transitions from actively used to inactive. Powered by Nasuni's patented UniFS® global file system, Nasuni Cloud File Services™ stores all files in private or public cloud object storage, caches active files wherever fast access is needed, and automatically correlates what customers pay with how they use their data. By eliminating the need for NAS, file server, backup, archiving, disaster recovery, and file synchronization solutions, Nasuni's consolidated platform improves workforce productivity, simplifies IT operations, and reduces IT costs. The world's largest companies in 12 industry sectors rely on Nasuni to maximize the business value of their file data and ensure business continuity. Nasuni operates globally from its worldwide headquarters in Boston and European office in London.

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