

Morro Data is revolutionizing data management for small and medium- sized businesses (SMBs) with the innovative CloudNAS series solution to deliver the local network performance and simple user experience with the cloud reliability, accessibility, and scalability.

**Morro CloudNAS** includes cloud storage, the Morro global filesystem, and a Morro CacheDrive device as an integrated hybrid cloud service. CloudNAS is a cost-effective solution for business applications of multi-office file sync-n-share, cloud backup and data protection, and cloud-based file storage consolidation.

**Morro CacheDrive** is the industry's first cloud gateway designed for high-performance, efficient and simple file access. Powered by Morro's Cache & Sync technology, the CacheDrive is a powerful edge device that supports advanced data management features, such as global de-duplication, compression, chunking, encryption, and versioning.

**CacheDrive V201** is a CacheDrive in a virtual appliance (VM). The V201 is designed for Hyper-V hypervisor and allows IT professionals to easily deploy in Microsoft Windows environment.

An V201 image can be acquired and deployed on a standard hardware platform to function as other Morro CacheDrive devices.

### High-performance

The Morro CacheDrive caches the most-recent accessed content locally for shared access. It allows users to access cloud-stored contents at local network speed – that is *100 times faster* than accessing directly from the cloud limited by the average broadband Internet connection.

### Storage Efficiency

Smart Cache & Sync allows users to access the files on demand. Once being accessed, the files are cached locally and available to all local network users. It frees disk space on users' PC or Mac. Users can be worry-free about running out of disk space typically caused by unnecessary automatic cloud storage download.

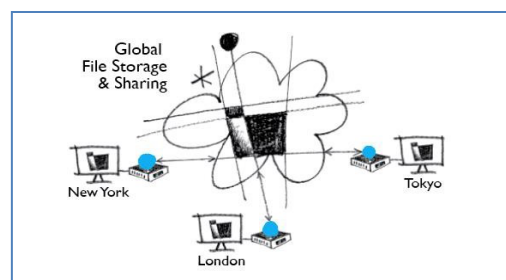
### Infinite Capacity

The CacheDrive is a gateway to the entire global filesystem. Even with limited cache size, users can access virtually unlimited file storage on the cloud. The solution is highly scalable to infinite capacity. The file metadata are sync'd and made available across all CacheDrive devices in the Morro account. Based on usage the most-recently accessed files are kept in each on-premises CacheDrive while the non-cached files are downloaded on demand from the cloud.

Morro CacheDrive is built upon advanced architecture and supports a range of cache size configurations. The cache size is determined based on the file access workload and the total cloud storage capacity. For general use, a 10-to-1 ratio is recommended for cloud-to-cache capacity to optimize the file download and cache utilization. This can be tailored per use case.

### Data Resiliency

Morro CacheDrive allows files being stored on Morro Cloud Storage, which is built on Amazon AWS S3 or Wasabi hot cloud storage. The enterprise-class cloud object storage is rated with 99.9% availability and 99.999999999% durability. Morro CloudNAS also supports bring-your-own-Storage for users to integrate its own AWS S3, BackBlaze B2, or Wasabi cloud storage for different applications.





# Morro CacheDrive V201

## Global File System

The Morro global filesystem provides unified and consolidated files access for users in the same office or from remote offices, for all the files stored on Cloud Storage. System administrator can setup and manage user accounts, user permissions and storage resource from a cloud-based management portal. Users in multiple office locations can all work together just like working in the same office.

## Simple and Versatile

Morro CacheDrive supports simple Network Attached Storage (NAS) interface via the Server Message Block (SMB) protocol. Users can drag-n-drop files in the most familiar local file manager.

Morro CloudNAS with the combined benefit of cloud and local network, it's a perfect fit for multiple office sync-n-share, cloud based backup, and accelerated cloud storage for primary file server applications.

## Cost-effective

With smart Cache & Sync technology, files are downloaded from the cloud to CacheDrive and shared among all users. It reduces the Internet traffic. With its innate backup-less and maintenance-free operation, Morro CloudNAS reduces the operational cost and management overhead. The solution does not charge per-user fee, offers optimal Total Cost of Ownership (TCO) for businesses.

## V201 Technical Specifications

Hypervisor	<b>Microsoft Hyper-V (Gen.2)</b>
<i>Supported configuration</i>	
Internal Storage /Cache	Minimum 80GB required. Expandable disk size, Up to 64 TB
Memory	2 GB (Minimum 768MB required)
Networking	1 port supported DHCP or Static IP, DHCP preferred Support of IPv4 and IPv6
Network File Protocol	CIFS/SMB
Management	Morro Cloud Manager, device management, user/group manager Account manager, customized unique URL
Access Authentication	User, Group, Gateway based share mapping Microsoft Windows Domain integration, Azure AD
Storage	Morro Cloud (Wasabi hot cloud storage based or Amazon S3 based cloud storage), AWS S3, BackBlaze B2, Wasabi Hot Cloud Storage De-duplication, compression, file-versioning
Security	AES 256-bit encryption, SSL for Web link
Supported Browser	Chrome v.49 or later, Firefox v.51 or later, IE 9 or later, Safari 7 or later
Model Configuration	Need CloudNAS Subscription plan
Requirement	Internet connection with outbound port 443 open No restrictions by IP address
SKU	<b>V2110WW</b>
Cache size	Expandable, up to 64TB

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