

# Retrospect® for Mac

## Hybrid Data Protection for Small & Medium Business



Retrospect delivers a complete and secure hybrid data protection solution for your entire cross-platform network, all with no dedicated IT staff required to manage it.

**Retrospect easily automates the backup process for networked computers.**

- Builds a complete and reliable backup strategy in minutes.
- Works flawlessly in a mixed Windows/Mac/Linux environment without adding cost.
- Auto-detects new, or previously off-line server, desktop & laptop computers and prioritizes their backup.

**Retrospect provides enterprise-level features and performance that small and midsize businesses need, without requiring dedicated IT staff to manage backup and recovery operations.**

- Hybrid protection backs up to local storage for fast recovery, and cloud storage for added security, archiving and remote DR needs.
- Performs versatile backups and restores with up to 16 simultaneous executable operations.
- Media management benefits make media rotation effortless, and locating data for restore simple.

**Retrospect is the backup software that small and midsize businesses rely on to protect their valuable information against costly data loss.**

- Industry-leading data verification double checks that data is fully backed up and restorable.
- U.S. Government-certified encryption ensures that backups and data transmissions are always secure.
- Open files, working databases and other running applications are protected and can be restored up to the moment that they were backed up.

### New in Retrospect v13

#### Cloud Backup

Protect your data offsite by storing it in the cloud. Retrospect 13 for Mac now supports integrated cloud backup to Amazon AWS S3, Google Cloud Storage, DreamHost, and other certified cloud storage providers.

#### Faster Grooming

Grooming ensures your data is protected with a long-term retention policy that fits within your storage, and now it's built for speed. Reduce the wait for storage savings with performance-optimized grooming, or reclaim as much space as possible with storage-optimized grooming.

#### Performance Improvements

Shorten your backup and restore windows with a 20% performance improvements in Retrospect 13 for Mac.

# Retrospect<sup>®</sup> for Mac

## Core Retrospect Product Line

### Retrospect Multi Server

Protects any number of networked Windows, Mac, and Linux servers, desktops, and notebooks from a single host computer running Retrospect. Supports disk and tape storage devices.

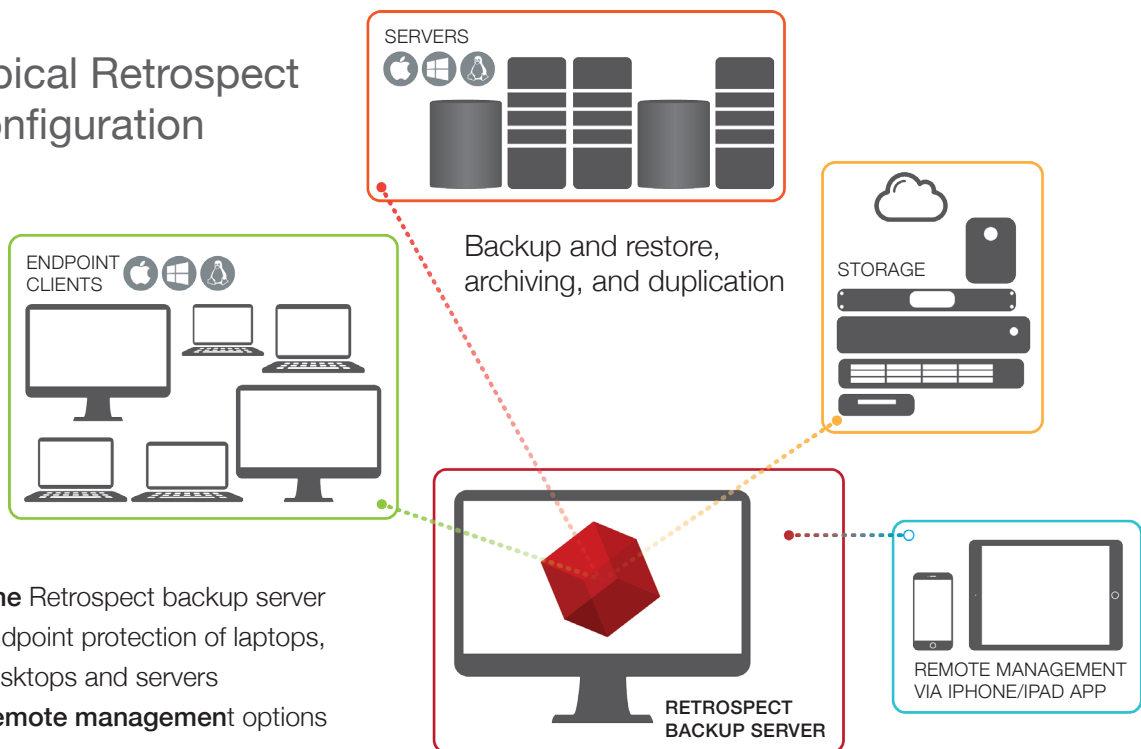
### Retrospect Single Server

Protects one server and networked Windows, Mac, and Linux desktops and notebooks from a single host computer running Retrospect. Additional server client licenses can be purchased to protect more networked Windows, Mac, or Linux servers. Supports disk and tape storage devices.

### Retrospect Desktop

Protects a single non-server Mac and up to five additional Windows, Mac, and Linux desktops and notebooks. Supports cloud, disk and tape storage devices.

## Typical Retrospect Configuration



## **Retrospect Add-on Product Line**

Add-ons may be purchased separately from the base product to increase Retrospect's functionality. See the chart below to know which add-ons are available for each product.

### **Open File Backup Unlimited**

Protects open files on NTFS-formatted volumes on Windows servers, desktops, and laptops. This add-on makes it possible to protect line-of-business applications—such as accounting, CRM, and proprietary database systems—while they're running, even those with data files spread across multiple volumes. Retrospect's Open File Backup Unlimited add-on extends to all Windows systems protected by your Retrospect host server, including end-user desktops and laptops.

### **Advanced Tape Support**

Improves backup times by utilizing multiple tape drives in parallel, including multiple stand-alone drives, drives in libraries, or drives in autoloaders. The Advanced Tape Support add-on is licensed per Retrospect host server, not per tape drive. For example, only one Advanced Tape Support add-on license is required for a library with four tape drive mechanisms.

### **Retrospect Client Packs**

Extends the number of networked desktops and notebook computers that can be backed up using Retrospect Disk-to-Disk or Desktop editions. Available in 1, 5, and 10 client license packs.

### **Retrospect Server Client**

Extends the number of networked servers that can be backed up using Retrospect Single Server editions. Each Retrospect Server Client adds a license for protecting one additional server as a network client.

### **Annual Support & Maintenance (ASM)**

Provides technical support via email and phone (available in select regions) and all upgrades/updates of purchased product at no additional cost for 1 year from the date of ASM purchase.

## Retrospect Makes Backups Easy and Automatic

<b>Getting Started Wizard</b>	Retrospect guides the new user through setup and running their first backup, whether it's for a single server or a whole network of systems.
<b>Automatic Device Configuration</b>	Retrospect recognizes supported devices automatically and makes them available for immediate use without the need for manual setup.
<b>Protects Everything</b>	Retrospect runs as a root user process on the Mac, so it can easily back up all files on servers, desktops, and notebooks.
<b>Runs in Virtual Environments</b>	Retrospect Client software can be used to natively back up Mac, Windows, or Linux machines running in virtualization under VMware Fusion or Parallels.
<b>Backup, Restore, and Copy Assistants</b>	Retrospect's assistants make it easy to perform the most common manual and scheduled operations.
<b>High-level Dashboard</b>	Retrospect's High-level Dashboard provides a high-level view of the entire state of your backup environment. See at a glance what backups are running, how much you've backed up in the last week per day, which computers aren't protected, the state of your storage, and more.
<b>Proactive Backup</b>	Need to protect laptops that come and go from the network? Retrospect's Proactive Backup feature watches for computers and automatically backs them up when they connect to the network.
<b>Back Up and Restore On Demand</b>	Retrospect Client software allows each user to quickly backup an important files or folders and even run their own restores right from the Desktop. Supports Windows clients.
<b>IMPROVED: Automatic Grooming</b>	<p>Retrospect's Grooming feature lets you decide how many backups to keep, and it will automatically remove older backups from Disk or Cloud media sets when it needs more storage space.</p> <p>Choose from two options: Performance-Optimized grooming, for the fastest grooming speed, or Storage-Optimized grooming for maximum space recovery.</p>
<b>Smart Incremental Backups</b>	There's no need to tell Retrospect to do a full backup; it intelligently backs up only the unique files that it doesn't already have.
<b>Block Level Incremental Backups</b>	Retrospect now has the ability to back up only the parts of a file that have changed. After an initial full backup, Retrospect searches out the changed pieces of each large file and only backs up those blocks, speeding backups and using far less storage space.
<b>Automatic File-level Deduplication</b>	Retrospect maximizes storage usage by only copying unique files—even across multiple computers—to the backup media.

## Retrospect Makes Backups Easy and Automatic

<b>Easy Physical Media Rotation</b>	Instead of needing to rely on complex media rotation schemes, such as Grandfather-Father-Son, Retrospect allows the user to rotate physical media as they see fit, and it automatically copies the files needed to keep each Media Set complete.
<b>Email Reporting</b>	Retrospect includes a wealth of data about your backups. The operations log is now included to give you complete insight into each backup's progress. Filter emails based on errors, warnings, or other keywords to hone in on issues as soon as they happen. Emails deliver critical information in the subject line, so that you can see that an operation completed successfully without opening.
<b>Control and Monitor Retrospect from iOS</b>	Use the free Retrospect iOS app on an iPhone, iPad, or iPod Touch to keep tabs on backups over Wi-Fi or 3/4G.
<b>Notification Center Messages</b>	Using Notification Center, users can be notified when a backup of their computer begins and when it's finished.
<b>Private File and Folder Options</b>	Users can easily drag and drop files, folders, and even entire volumes like flash drives to the client control panel to mark them private, so they won't be copied during a backup.
<b>Roll-back Restores (Live Restores)</b>	Retrospect is able to easily roll back a functioning computer to a previous state. Simply restore over the volume that includes the running operating system and reboot.
<b>Auto-Locates Network Clients</b>	When used with a public/private key, Retrospect will automatically connect to new client computers on the network and even back them up without manual intervention.
<b>Wake-on-LAN for Green Backups</b>	To reduce the overall power demands for backups, Retrospect awakens sleeping/stand-by mode computers to back them up and then allows them to return to their low-power state.
<b>Growl Notifications for Network Backup</b>	Retrospect employs Growl notification on pre-Mountain Lion Macs protected by the Retrospect Client software to notify users when a backup has completed.
<b>Automatic Software Updates</b>	Retrospect will periodically check for software and device driver updates and notify the user when updates are available for download.

# Retrospect® for Mac

## Retrospect is Powerful and Flexible

<b>Backs Up Mac, Windows, and Linux</b>	Heterogeneous networks are protected using Retrospect's native client software, ensuring perfect backups regardless of operating system. Includes native 64-bit Linux Support.
<b>Complete Windows Backups and Restores</b>	Retrospect for Mac employs native Windows backup client software for complete backups that include system state and even open files on desktops and laptops.
<b>Full Hybrid Backup Solution</b>	A single copy of Retrospect delivers backup to local destinations for quick access, and cloud destinations for added security and archiving.
<b>Back up to multiple Disk destinations</b>	Retrospect can make use of multiple hard disk destinations, whether grouped together or used independently; connected directly via Thunderbolt, USB, FireWire, or eSATA; or when networked using Ethernet, iSCSI, or Fibre Channel.
<b>Uses Disk, Removable, Cloud, and Tape</b>	Retrospect supports most types of magnetic media for backup, including hard disk drives, network-attached disk, certified third-party cloud storage, flash media, and every major tape format.
<b>Disk-to-Disk-to-Disk (D2D2D) Backups</b>	Retrospect can transfer specific or all backups between Media Set destinations, making it trivial to back up nightly to network-attached storage and then transfer just the most recent nightly backups to a portable hard disk for safe, offsite storage.
<b>Disk-to-Disk-to-Tape (D2D2T) Backups</b>	Retrospect can stage backups to disk before transferring them to tape, ensuring that the fastest possible throughput is achieved at each stage. Disk-based backups can also be copied to tape for safe, offsite storage or archiving.
<b>Advanced Tape Support (add-on)</b>	This add-on allows Retrospect to stream backups to multiple tape drives at the same time, whether installed in a single library or standalone.
<b>Flexible Scheduling</b>	Backup, copy, archive, and restore operations in Retrospect can be scheduled to meet any agenda.

## Retrospect is Powerful and Flexible

<b>Creates Bootable Copies</b>	The copy feature in Retrospect can make a bootable clone of any Mac volume, and it can keep the clone updated with its Smart Incremental technology, which takes far less time than a new copy.
<b>Powerful Search Capabilities</b>	Retrospect can locate files not only by name and location, but also by a multitude of other criteria, including modification date, Finder label, size, and even security permissions.
<b>Powerful Filtering</b>	To include or skip specific files, folders, and volumes, or to back up only specific data to cloud storage, Retrospect includes both built-in and user-definable rules that filter data based on a multitude of conditions, including file names, dates, and types.
<b>Space-saving Data Compression</b>	Built-in data compression routines and support for hardware-based compression present in tape drives comes into use after Retrospect performs its file-based deduplication, further reducing backup storage requirements.
<b>Faster Backup Speeds with Instant Scan</b>	Retrospect Clients already know what files have been added or changed before the backup server even connects, cutting average nightly backup times in half. The same technology is also used on the backup server.
<b>Performs Multiple Tasks Simultaneously</b>	Need to run a restore without interrupting ongoing backups? Need to back up multiple laptops at the same time? Retrospect server editions perform up to 16 simultaneous operations.
<b>Support for Multiple Network Interfaces</b>	Retrospect can take advantage of multiple network interface cards to improve performance and to prevent traffic from crossing subnets.
<b>Remote Management of Multiple Backup Servers</b>	Log in multiple Retrospect servers and control them from a single screen, easing management for larger installations.
<b>Custom Reporting</b>	Retrospect uses condition-based reporting, like the Find command in OS X, to provide details on activities, sources, performance, media capacity, and much more. Built-in reports are easily duplicated and modified.

## Retrospect is Built for Reliability and Security

<b>Automatic Configuration Export</b>	When configuration (e.g. script, preferences) is changed, the Retrospect engine now automatically exports a copy. On launch, if the engine doesn't find a usable configuration file, it automatically imports one.
<b>Administrator Feature Control</b>	The backup administrator can control access to end-user features like marking private files, running an on-demand restore, or stopping a backup that's in progress. Supports Windows clients.



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<b>Network Link Encryption</b>	Retrospect will optionally encrypt communications between network clients and the backup server using strong AES-256 encryption to prevent network snooping of private information. Now supports strong encryption for Windows clients.
<b>Precise Restores Every Time</b>	Because it saves a complete point-in-time file listing of every backup, Retrospect always restores exactly the files that belong on a volume; no unwanted files get restored and later require cleanup.
<b>Apple Developer ID-signed</b>	Retrospect's installers and applications are digitally signed with an Apple Developer ID, providing integration with Mountain Lion's new Gatekeeper security feature.
<b>Multiple Media Sets for Offsite and Archival Storage</b>	Retrospect employs multiple storage destinations—called Media Sets—and tracks each independently to provide for easy offsite storage and maximize restore reliability.
<b>Industry-leading Data Verification</b>	When verifying data copied during the backup process, Retrospect actually employs the restore routines in the software to do a byte-by-byte comparison against the original, verifying not just the data but the entire restore process. Verifying the restore process and data together provides the most reliable method of verification available anywhere.
<b>Anytime Verification</b>	For tight backup windows where backups must be as fast as possible, Retrospect can verify the backup data at a later time by using a checkpoint method that does not burden the disk containing the original data.
<b>Backup Media Encryption</b>	Retrospect provides multiple encryption options for safeguarding backup data against unwanted access, including government standard AES-256 encryption.
<b>Secure Client Access</b>	Retrospect Client software is either password protected or deployed using a public/private key method for added security. The proper credentials must be presented to log in and back up the client machine.
<b>S.M.A.R.T. Alert Aware</b>	The Retrospect software communicates to the backup server when a hard disk drive begins to fail so it can be backed up immediately.
<b>WORM Tape Compliance Support</b>	Retrospect fully supports write-once, read-many tape media for strict compliance with various regulations, including Sarbanes-Oxley.
<b>Scheduled Tape Drive Cleaning</b>	Retrospect helps maintain drives in tape autoloaders and libraries by periodically loading a cleaning tape cartridge. Cleaning reminders are provided for standalone tape drives.
<b>Over Two Decades of Innovation</b>	Millions of users rely on Retrospect to protect their critical information.



# Retrospect<sup>®</sup> for Mac

## System Requirements for Retrospect 13 for Mac

### Supported Operating Systems

- OS X El Capitan / El Capitan Server 10.11
- OS X Yosemite / Yosemite Server 10.10.5
- OS X Mavericks / Mavericks Server 10.9.5
- OS X Mountain Lion / Mountain Lion Server 10.8.5
- OS X Lion / Lion Server 10.7.5
- OS X Snow Leopard / Snow Leopard Server 10.6.8

### Supported Hardware

- Intel processor with one or more multicore processors

### System Recommendations

- Latest Software Update for OS X
- 1 GB for each concurrent activity; 4 GB minimum
- 10-15 GB of temp hard disk space for each concurrent activity (backup, restore, etc.)
- Adequate storage for backups
- RAM that meets Apple's guidelines for each OS

## System Requirements for Retrospect 13 Client for Mac

### Supported Operating Systems

- OS X El Capitan / El Capitan Server 10.11
- OS X Yosemite / Yosemite Server 10.10.5
- OS X Mavericks / Mavericks Server 10.9.5
- OS X Mountain Lion / Mountain Lion Server 10.8.5
- OS X Lion / Lion Server 10.7.5
- OS X Snow Leopard / Snow Leopard Server 10.6.8

### Supported Hardware

- Intel processor with one or more multicore processors

### System Recommendations

- Latest Software Update for OS X
- RAM that meets Apple's guidelines for each OS

### Protecting Servers

Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.

## System Requirements for Retrospect 11 Client for Windows

### Supported Operating Systems

- Microsoft Windows XP, Vista, 7, 8, 10
- Microsoft Windows Server 2003, 2008, 2012, 2012 R2
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows SBS 2003, 2008, 2011
- Microsoft Windows Storage Server 2003, 2008

### Supported Hardware

- Intel processor (32-bit and 64-bit) with one or more multicore processors

### System Recommendations

- Latest Service Pack for Windows
- RAM that meets Microsoft's guidelines for each OS

# Retrospect® for Mac

## Protecting Servers

Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.

## System Requirements for Retrospect 11 Client for Linux

### Supported Operating Systems

The following Linux distributions are supported on x86 and x64:

- CentOS 6.4, 6.5 and 7
- Red Hat Enterprise Linux 7
- Debian 7.6
- Ubuntu Server 14.04
- SUSE 11 Enterprise Server 11 SP2 and SP3

## Protecting Servers

Backing up server OS clients requires Retrospect Multi Server or other Server edition with available Server Client Licenses.



### Questions?

Contact Retrospect sales by scanning the QR code or visiting [retrospect.com/contact\\_sales](http://retrospect.com/contact_sales)