

# EMC CLOUD TIERING APPLIANCE

The storage industry's most robust tiering strategy

## ESSENTIALS

- Policy-based file tiering and retrieval across multiple storage tiers
- Archiving of inactive data onto secondary storage where file retention requirements can be enforced
- File migration from one platform to another to automate platform conversions
- Supports EMC Data Domain, EMC Isilon, EMC VNX, EMC Atmos and public clouds
- Built in compression and encryption when tiering to cloud

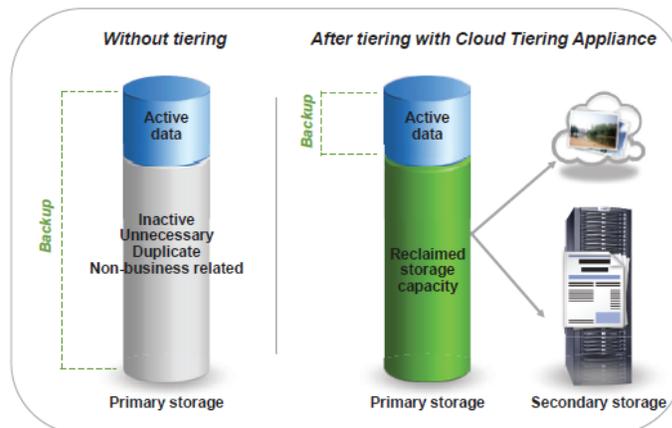
As you face the challenges of the explosive growth of unstructured data, you must find a way to simplify network-attached storage (NAS) management and rein in storage costs. Deploying a tiered storage infrastructure and automating information movement is quickly becoming a best practice in managing the data explosion. EMC is the only storage vendor to provide an all-encompassing tiering approach that includes in-system auto-tiering (with the EMC® VNX® Fast Suite), tiering from one storage system to another, and tiering to the cloud—collectively the most comprehensive tiering offerings in the industry.

The EMC Cloud Tiering Appliance automates policy-based file movement, enabling you to meet data growth challenges by improving capacity utilization of high-cost primary storage, reducing the volume of data in routine backup operations, and easing the storage administrator overhead of managing overflowing storage systems.

Industry estimates are that in most cases, 80 percent of file data is no longer active after just 30 days. The EMC Cloud Tiering Appliance optimizes primary network-attached storage by automatically moving inactive files to less-expensive secondary storage. Tiered files appear to users and applications as if they remain on the primary storage and are quickly retrievable, yet backup activities on primary storage need only address active files.

As a result, you can achieve many benefits, such as:

- **Reduce capital expenses:** Spending on new NAS systems is curtailed when capacity on primary storage can be reclaimed
- **Lower operating expenses:** Storage administrators no longer have to be consumed with lengthy, error-prone manual processes
- **Improved performance:** Backup times are decreased, minimizing disruption to other applications.



## SIMPLE, SCALABLE, POLICY-BASED FILE TIERING AND MIGRATION

Cloud Tiering Appliance is designed to work within your business requirements, not the other way around. It moves information from primary storage (EMC VNX, EMC Celerra®, and NetApp) to other EMC Unified Storage, EMC Data Domain®, EMC Isilon®, EMC Centera, along with EMC Atmos™ and public clouds.

**Tiering:** Automated file tiering archives infrequently accessed files onto less costly storage of your choice—even across multiple storage tiers—with seamless retrieval. Cloud storage is an ideal tiering destination due to its affordability and scalability. Cloud Tiering Appliance can move inactive files onto EMC Atmos or public clouds.

Tiering with Cloud Tiering Appliance not only allows you to leverage the cost benefit of secondary storage, but also enforce file retention (WORM Requirements).

EMC Centera® is a purpose-built archive storage platform with rich compliance functionality for organizations with stringent retention requirements.

Archiving onto EMC Data Domain enables you to use the same system for backup and archive. Cloud Tiering Appliance supports Data Domain Retention Lock and can even employ Data Domain deduplication functionality across backed-up and archived files.

Tiering to Isilon enables you to meet WORM requirements while leveraging Isilon's immense scalability and additional built in protection such as Snapshots for fast and efficient backup and recovery and replication for disaster recovery.

**Migration:** Files are permanently moved from one platform to another to automate technology refreshes and platform conversions. Migration from NetApp and EMC storage onto EMC VNX, EMC VNXe™, EMC Isilon and EMC Celerra is supported.

## CAPITALIZE ON PUBLIC CLOUD

Cloud Tiering Appliance is an efficient and low-risk way to introduce the benefits of public cloud to your storage environment. When dealing with cloud, not only capacity but bandwidth becomes an important cost consideration. With Cloud Tiering Appliance, data compression can be enabled, allowing bandwidth optimization when tiering to cloud storage. Encryption provides protection for data “at rest” and reduces the risk of compromising sensitive data stored in the cloud.

## A SEAMLESS SOLUTION

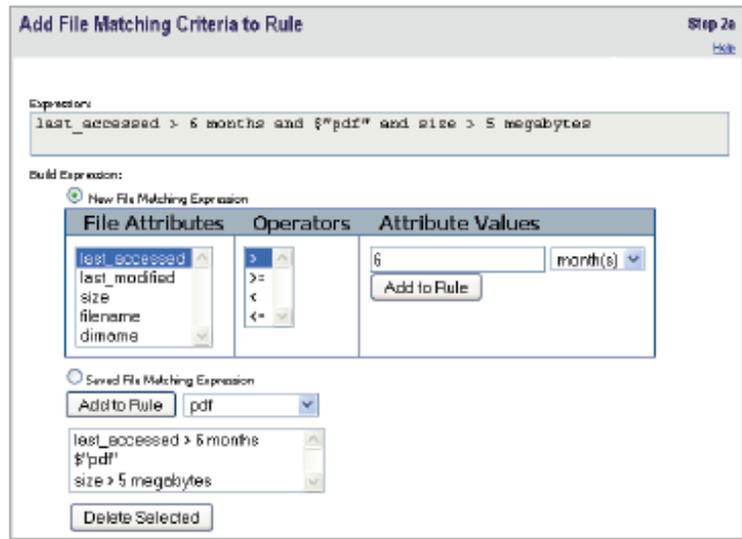
Cloud Tiering Appliance is integrated with storage platform APIs, so native functionality and existing processes can be maintained, providing a transparent experience for the storage administrator. Cloud Tiering Appliance stub files are protected by existing snapshot and backup procedures, but at the same time, backup and anti-virus software will not recall files from archive. Compliance functionality available in the underlying storage is complementary to Cloud Tiering Appliance data placement, and files that have not met their retention periods will not be deleted.

## A FLEXIBLE SOLUTION

A single appliance can support any combination of policy types and storage platforms. Its robust policy engine supports flexible rules for inclusion and exclusion and the potential impact of file placement policies can be previewed before they are implemented. Features such as multi-level tiering and archive repository migration enable storage administrators to have control over data placement and take advantage of other storage platforms as the data center evolves.

Getting started is as easy as 1-2-3:

1. Create policy through GUI wizards or the command-line interface
2. Preview the potential impact of a policy before moving data
3. Schedule policy to run immediately or at regular intervals



## FLEXIBLE DEPLOYMENT OPTIONS

Cloud Tiering Appliance is a purpose-built appliance with integrated software and EMC-certified hardware for easy ordering, installation, and service.

Cloud Tiering Appliance/VE is a virtual appliance that enables you to leverage your virtualized server environment by deploying the Cloud Tiering Appliance technology onto an existing VMware® ESX® or vSphere™ server.

## DESIGNED FOR THE ENTERPRISE

The scalability and manageability advantages designed into Cloud Tiering Appliance enable the product to easily support large NAS environments. With Cloud Tiering Appliance, all the information required for recall is contained in a small stub file—there is no persistent metadata that controls the location of files. This means no database must be maintained, backed up, and protected.

Cloud Tiering Appliance can be deployed on a standalone basis or in an HA configuration. Built-in high availability—no additional clustering software is needed—provides continuous, non-disruptive file recall, ensuring mission-critical files are always available.

Cloud Tiering Appliance is deployed non-disruptively and the archiving process operates completely out-of-band. As your NAS environment grows, you can easily add additional storage systems to Cloud Tiering Appliance as source or target platforms.

## MANAGEABILITY

Cloud Tiering Appliance enables you to manage file tiering policies across your entire network from one simple interface. You can automate the placement of files across storage tiers without increasing management tasks or negatively impacting existing procedures. Advanced file management features enable storage administrators to recover stub files, identify and address orphan files, and track versions.

## CONTACT US

EMC Cloud Tiering Appliance helps you lower capital expenditures and reduce the total cost of ownership of network storage by improving storage efficiency. To find out how it can do the same for you, contact your EMC sales representative or visit our website at [www.EMC.com](http://www.EMC.com).

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