

# EMC Tiered IP Storage Solution Using Rainfinity FMA and Celerra

## The Big Picture

- Meet backup windows by moving inactive data to lower-cost tiers of storage and backing up only active data
- Manage explosive data growth by archiving inactive data to lower-cost disk
- Improve performance, productivity, and service levels
- Achieve your high-availability requirements and ensure your data is always accessible

## Simple tiered storage for enterprise NAS

Growing file systems not only drive up enterprises' capital expenditures, but also result in inefficiencies and disruption to business operations. Industry research finds that, on average, more than two-thirds of an organization's data has not been accessed in at least 90 days. At the same time, half of all unplanned server outages are the result of disk space consumption.

The first step of your tiered storage strategy should be an intelligent file archiving solution that aligns storage with data access and retention requirements. With scheduled policies to move inactive data off of primary storage, you can:

- Lower overall storage costs
- Back up and recover faster
- Reduce management complexity and overhead

The EMC® Tiered IP Storage Solution Using EMC Rainfinity® FMA and Celerra® allows you to manage individual files and automatically move your information to the appropriate tier of storage based on the value of your information through its lifecycle. The result is lower file server TCO and improved IT productivity.

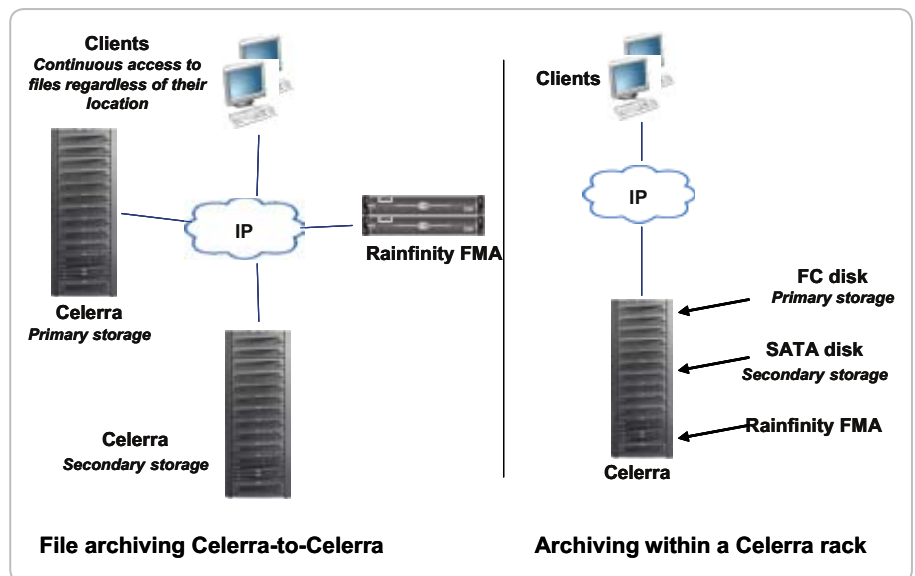
The EMC Tiered IP Storage Solution provides enterprise-class, automated file archiving to simplify tiered storage management. With an EMC solution, you require only one vendor to install and support your complete information lifecycle management (ILM) infrastructure.

### File management across tiered storage

EMC Rainfinity File Management Appliance (FMA) automates policy-based file management and moves inactive data on a per-file basis to lower tiers of storage. Rainfinity FMA is a stand-alone appliance that deploys quickly and easily and provides scalability, high availability, manageability, and flexibility.

EMC Rainfinity FMA enables organizations to quickly implement a tiered storage environment.

1. Create policies through GUI wizards or the command-line interface
2. Preview the results of a policy before running it on production data
3. Schedule the archiving process
4. Automatically archive files to lower-cost disk within the same Celerra system, to a secondary Celerra system, or to EMC Centera®



## EMC Celerra NS series

The EMC Celerra NS series delivers easy-to-deploy, easy-to-manage enterprise-class IP storage. Unlike general-purpose servers, Celerra is designed with high availability and disaster recovery options.

The Celerra FileMover API is integrated with Rainfinity FMA to provide seamless data movement from the primary Celerra storage to lower-cost disk on the same or a different Celerra system or to EMC Centera content-addressed storage (CAS).

## Customer example

A manufacturing company consolidated 18 file servers with the EMC Tiered IP Storage Solution Using Rainfinity FMA and Celerra. This customer had been performing incremental daily backups as well as full weekly and monthly backups using an LTO-2 drive. With data growing nearly 40 percent per year, their file servers were becoming too costly to manage and downtime was becoming a significant concern.

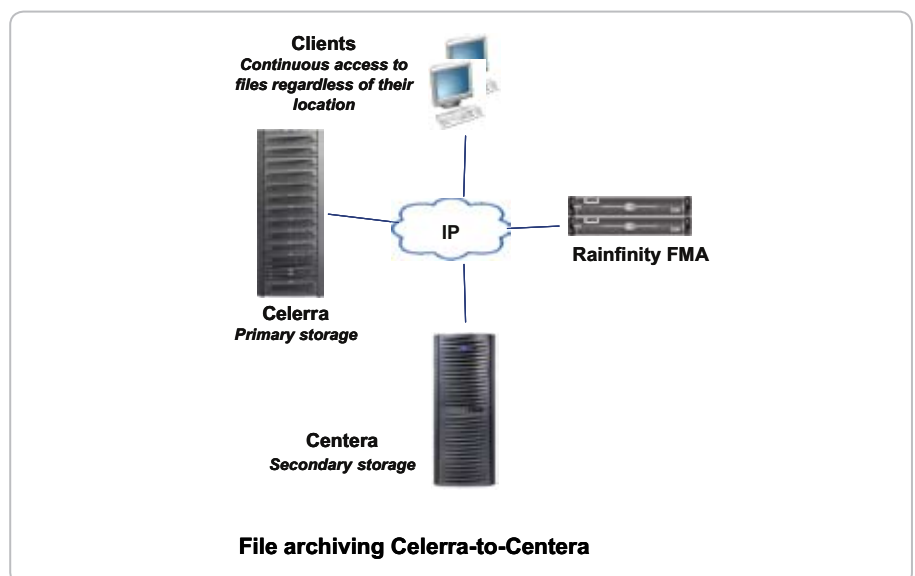
After implementing the EMC Tiered IP Storage Solution Using Rainfinity FMA and Celerra, the customer:

- Reduced backup time by 940 hours in the first year by removing inactive data from the backup window
- Realized a three-year TCO savings of over \$1 million

## EMC Centera content-addressed storage

EMC Centera meets the unique storage requirements of fixed content by providing online access with assured content authenticity. Leveraging EMC Centera's content addressing (digital fingerprinting), an object is stored only once, ensuring its authenticity and reducing consumption of valuable disk space.

EMC Centera constantly self-monitors to detect and repair faults, and automatically reconfigures itself and replicates objects as necessary. Content addressing ensures that each record cannot be overwritten, while retention protection ensures that a record cannot be prematurely erased before the expiration of its retention period.



## A solution designed to protect against system or site failure

The EMC Tiered IP Storage Solution Using Rainfinity FMA and Celerra can be configured with a disaster recovery site. Celerra Replicator™ is an asynchronous remote replication infrastructure tool for Celerra that produces a read-only, point-in-time copy of a source file system or a virtual Data Mover and

periodically updates this copy. Should a catastrophic event occur that causes the primary Celerra storage to fail, the disaster recovery site will take over until the failure is resolved and failback has occurred.

Additionally, high availability is built into each component of the solution. Rainfinity FMA is configured to fail over to a standby device in the event of a major hardware failure. Celerra is configured with redundant Data Movers, allowing continuous access to data in the event of a hardware or software failure. EMC Centera is also configured for high availability. Should the primary EMC Centera fail, the disaster recovery EMC Centera system will become the active secondary storage device.

### It's time to consider a better solution

If you're wondering whether your organization is ready to implement tiered storage with file archiving, consider the following questions:

- Are full backups impacting production storage availability?
- Can you meet, or would you like to lower, your recovery-time objectives?
- What percentage of your company's files have not been accessed in 90 days or more?
- Have you experienced server outages as a result of running out of disk space?
- How much of your staff's time is spent managing available disk capacity?
- How long does it take your staff to retrieve files from old backup tapes?



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#### Take the next step

To learn more about implementing the EMC Tiered IP Storage Solution Using Rainfinity FMA and Celerra, contact your sales representative or visit [www.EMC.com/rainfinity](http://www.EMC.com/rainfinity).