

# CTERA for the Financial Services Industry

CTERA's Global File System contributes to improved client business processes and offers powerful protection against cybersecurity threats.

The financial services sector manages a significant volume of data, including everything from personal banking details and transaction histories to market data and international financial exchanges. As this sector's data storage needs grow, so do its distinct challenges, including:

- **Confidentiality and Privacy:** Due to the sensitive nature of client information, financial institutions are required to comply with rigorous confidentiality and privacy standards.
- **Regulatory Compliance:** Compliance with financial regulations necessitates robust safeguards for electronically stored Personally Identifiable Information (PII) to maintain the confidentiality and integrity of sensitive client data.
- **Cyber Threats:** The sector faces increasing cyber threats, particularly ransomware. Financial services providers are attractive targets for cybercriminals.

CTERA's Global File System offers solutions to these challenges:

- **Efficient Data Sharing:** Unlike traditional SAN/NAS systems, CTERA's Global File System enables efficient data sharing across entire financial services organizations, not just within a single data center.
- **Security and Compliance:** With AI-based ransomware protection, air-gapped snapshots, instant disaster recovery, data exfiltration prevention and WORM (Write Once Read Many), CTERA offers robust protection for crucial financial data.

The capabilities of CTERA's Global File System contribute to improved customer outcomes and offer powerful protections against cybersecurity threats.

## CTERA: A Comprehensive Solution for the Financial Services Industry

The CTERA Enterprise File Services Platform offers a wide range of features to address financial services and banking facilities' data management, collaboration, and storage requirements. Key features of the CTERA platform include:



### Streamline Compliance

CTERA's platform significantly streamlines adherence to controls like SOX, GDPR, FINRA and more for availability, confidentiality, and integrity through its robust file encryption, offsite replication and secure data disposal. Moreover, the platform offers Write Once, Read Many (WORM) capabilities that safeguard data from being erased or modified based on a configurable retention policy.



### Access Files from Any Location

CTERA provides secure, real-time access to financial data to authorized persons, regardless of location. It effectively eliminates the risks associated with sending files over email or FTP and supports the efficient transfer of large volumes of data across facilities or to external partners. A global file system facilitates timely decision-making, ultimately improving customer outcomes.



### Safeguard PII Against Ransomware

CTERA employs AI-based ransomware detection and robust instant rollback features. Air-gapped, immutable snapshots, provide dependable protection against natural disasters and cyber threats, while honeypots deploy decoys to detect, analyze, and understand attackers' methodologies, serving as an early warning system against potential threats.



### Scale as Data Grows

By leveraging object storage, CTERA reduces storage costs by up to 80% and provides immediate scalability as data requirements increase, minimizing the need for local IT personnel.

CASE STUDIES

# CARLYLE

## The Carlyle Group

The Carlyle Group, a leading private equity firm, modernized its office file system with CTERA's cloud-enabled solution to enhance global data accessibility and business continuity. Facing the challenge of outdated servers that hindered productivity during outages, Carlyle adopted CTERA's Enterprise File Services Platform for seamless file access across its global offices. **CTERA's platform meets strict security standards and significantly reduced Carlyle's overhead costs**, while ensuring data was available even during network outages, supporting Carlyle's distributed workforce and enhancing overall operational efficiency.

## System Components



### Global File System

Serves as a comprehensive data lake for unstructured data. It offers a single pane of glass management and visibility across distributed sites and cloud providers.



### CTERA Vault

Allows data to be written to a storage system once and then prevents any modifications and/or deletions, serving as a security vault for your data that is immune to ransomware, accidental deletions, and unwanted changes.



### CTERA Edge Filers

Replace outdated file servers and NAS devices with a centrally governed, cache-enabled cloud gateway. This enables more effective management of unstructured data growth while maintaining full compatibility with existing SMB and NFS protocol clients.



### CTERA Drive

CTERA's applications for Windows, Mac, iOS, and Android offer secure and expedited file synchronization and sharing for users' devices, regardless of their location, enabling financial services professionals to securely access and share protected files.



### CTERA Ransom Protect

Integrated into CTERA Edge Filer and is easily activated with a single click for streamlined deployment. It employs advanced machine learning algorithms to identify and block suspicious file activities swiftly, while administrators can monitor attacks in the incident management dashboard in real-time. Data exfiltration prevention strategically deploys decoys to identify and stop unauthorized access or attempts at data theft.



### CTERA PORTAL

Enables centralized management of petabyte-scale global file services across numerous distributed sites and users. The portal supports deployment on public, private, or hybrid cloud infrastructures, enhancing cost efficiency while facilitating regulatory compliance. Its secure multi-tenant environment allows data segregation at the department level, safeguarding financial data.

## CTERA's Comprehensive Solution for Financial Services Providers

### Infinite File Storage for the Financial Services Industry

CTERA's Global File System provides Infinite File Storage for financial institutions using CTERA Edge Filers. Deployed as virtual machines, these caching devices replace traditional file servers, enabling IT teams to manage unstructured data growth and facilitate multi-site collaboration efficiently.

CTERA Edge Filers are ideal for handling large files typical in the financial industry, such as transaction records and compliance archives. Financial institutions can enjoy virtually unlimited storage capacity and seamless collaboration across all sites, improving efficiency and productivity.

The CTERA Global File System acts as an active archive with cost-effective cloud object storage. It ensures continuous replication of file changes to the institution's chosen cloud, facilitates global file access, and ensures business continuity.

### Regulations and Compliance

CTERA ensures adherence to critical regulatory and compliance standards. The platform supports compliance with the Sarbanes-Oxley Act (SOX), SEC Rule 17a-4, the General Data Protection Regulation (GDPR), the Financial Industry Regulatory Authority (FINRA) standards, and the California Consumer Privacy Act (CCPA).

### Enhanced Data Protection and Recovery

CTERA's platform provides superior data protection and recovery, automating snapshots to enable instant restoration of files, such as transaction records or compliance documents, to virtually any point in time. This reduces Recovery Point Objectives (RPO) to minutes and Recovery Time Objectives (RTO) to seconds, minimizing interruptions in critical financial services.







### Unlocking Financial Analysis with CTERA Data Services

CTERA supports integration with data science tools like Jupyter Notebook and RStudio through its Python SDK, REST API, and Amazon S3-compatible interfaces, allowing financial analysts to efficiently process and analyze data. The platform's multi-tenancy capabilities enable secure, isolated access to sensitive financial data, ensuring compliance with privacy regulations.













## CTERA Enterprise File Services Platform

<b>Distributed Multi-Cloud File Storage</b>	<b>Built-in Cyber Resiliency and Data Protection</b>	<b>Data Workflow Automation</b>	<b>Military-Grade Compliance</b>
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 Data Governance	 Ransomware & Malware Protection	 Global File Replication	 Continuous File Protection	 Immutable Data Archive	 Data Discovery & Migration
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<b>CTERA PORTAL</b> Global File System   Multi-tenant Management      	<b>Datacenter/Branch</b> <b>CTERA EDGE FILER</b> SMB/NFS Caching Multi-Site Sync Archiving 	<b>Roaming Users</b> <b>CTERA DRIVE</b> Cached Drive Endpoint Sync Mobile App     
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