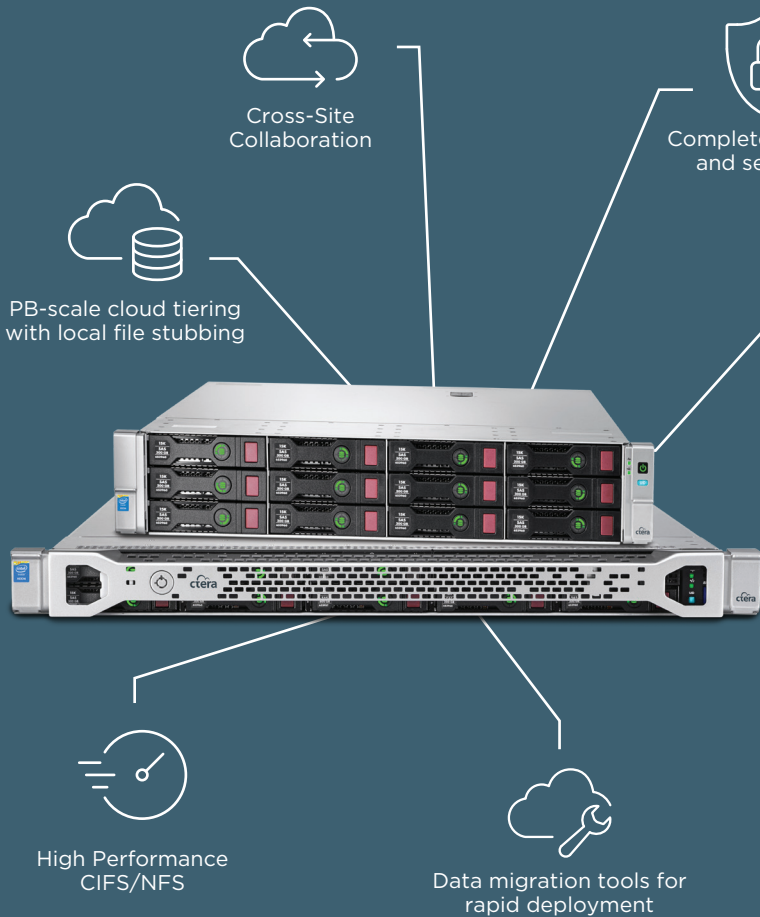


CTERA BRANCH STORAGE MODERNIZATION

All-in-One Remote Office Storage,
File Collaboration, and Backup Solution



- Replace legacy file servers/NAS, DR solutions, and collaboration tools with a turnkey edge filer
- Enjoy fast, local access to cloud-based files from any office or endpoint device
- Collaborate across global offices and improve user productivity
- Dramatically reduce TCO of ROBO file storage with cloud caching and tiering
- Connect to the IBM Cloud infrastructure of your choice
- Scale to 1,000s of sites while lowering IT overhead through centralized management

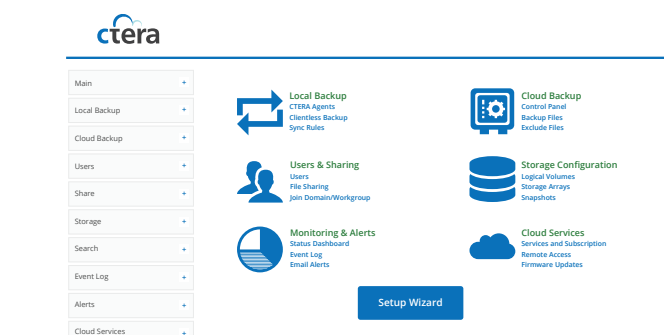
CTERA and IBM modernize remote office / branch office (ROBO) IT with a powerful and comprehensive platform for file storage, content collaboration, and data tiering that spans on-premises and cloud infrastructures.

CTERA Edge Filers replace aging file servers and NAS with a powerful, cloud-native solution offering modern collaboration, elastic scaling, and significant cost savings. The filers bridge network latency with caching for high performance at the edge, provide end-to-end encryption, and support any public, private, dedicated or hybrid IBM cloud infrastructure. CTERA and IBM's scalable solution supports any number of remote locations, and its WAN-optimized transport protocol ensures secure data transfer across widely distributed organizations.

CTERA ROBO SOLUTION FEATURES

All-in-One Storage, Collaboration and Backup

- A turnkey appliance for branch storage, file server/NAS, and file sharing and collaboration
- Local edge capacities of up to 96TB with high-speed access to an unlimited number of global namespace files
- Wide-ranging optionality for physical, virtual, and hyperconverged filers to support any enterprise ROBO requirement
- Transparent archiving and tiering to the cloud using advanced caching technology



Centralized Management and Governance

- Remote data access and appliance administration from anywhere via the cloud
- Central management and monitoring to eliminate remote IT staffing needs
- APIs and integrations to enforce data protection policies: EMM, DLP, AV, and many more
- Multi-tenant, scalable management with templates and hierarchical administration

End-End Security and Privacy

- Source-based AES 256-bit data encryption from the endpoint to the cloud, with private encryption keys
- In-transit encryption using TLS
- Password policy management
- Integrates with Active Directory/LDAP and SSO services

Company (Optional):	<input type="text" value="CTERA Networks"/>
Role:	<input type="text" value="Read Only Administrator"/> ▼
Status:	<input type="text" value="Active"/> ▼
Language:	<input type="text" value="English"/> ▼
<input checked="" type="checkbox"/> Expiration Date:	<input type="text" value="Dec 2017,16"/>
Password:	<input type="password" value="*****"/>

Throughput Control

Do not throttle
 Throttle the internet bandwidth usage

Limit outgoing bandwidth to: Kbit/sec

During these hours: -

On Days:

Cost-Efficient and WAN-Optimized

- Source-based global de-duplication greatly reduces WAN traffic and storage requirements
- Caching technology reduces edge storage requirements
- Automated resumption of interrupted file transfer facilitates large file transfer
- Configurable bandwidth throttling

Choose Your Private, Public, or Multi-Cloud

- Support for private, public, and IBM Cloud deployments
- Leverages your existing infrastructure
- Migrate data across IBM Cloud and any other public and private cloud infrastructure
- Active Directory/LDAP integration for user authentication and single sign-on (SSO)



BRANCH OFFICE USE CASES

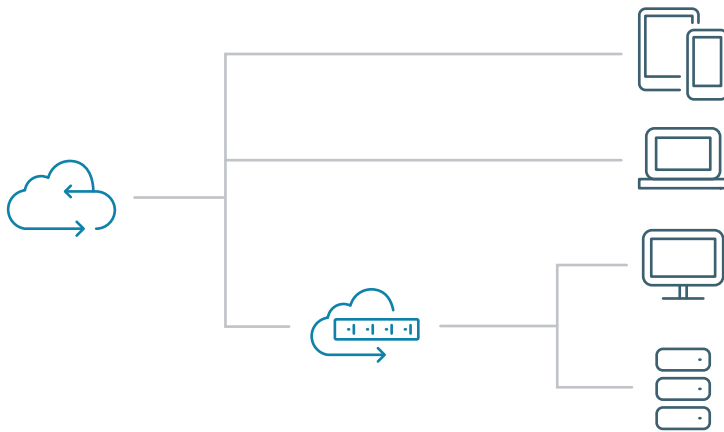
ROBO File Server

- Replace legacy siloed file servers with cloud-integrated, centrally-managed appliances
- Future-proof against unstructured data growth with any cloud object storage backend
- Right-size for every remote site with edge filer capacities ranging from 8TB to 96 TB raw



Cross-Site Collaboration

- Enable easy user file sharing and collaboration across offices
- Collaborate on cloud-based files locally via intelligent caching technology
- Optimize employee file access both in and out of the office
- Sync folders for simple, efficient content distribution – software updates, critical business documents, etc.



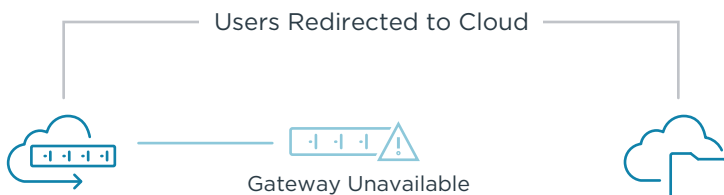
Data Tiering and Archiving

- Tier file data to low-cost cloud object storage while preserving high edge performance through local caching
- Migrate archived files to cloud object storage; maintain local visibility through stub files (metadata)

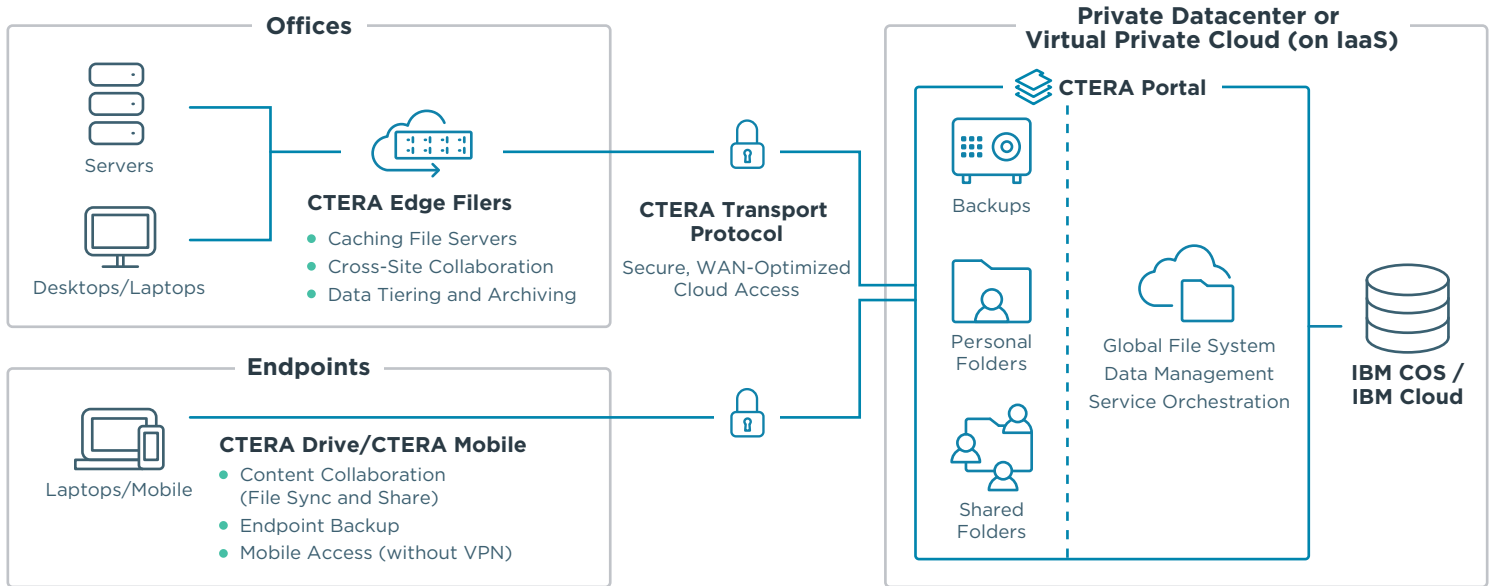


Zero-Minute Disaster Recovery




- Redirect users to secure direct-to-cloud file access in the event of a gateway outage, ensuring uninterrupted productivity
- Enforce user ACLs from gateway in cloud with existing folder structures
- Avoid expensive on-site failover/replacement hardware – save \$1,000s per office



ARCHITECTURE



CTERA Edge Filer Models

	 H Series	 X Series	 V Series
Form Factor	1U or 2U Physical Appliance	2 x 2U Hyperconverged Appliance	Virtual Appliance
Edge Capacity	16 to 96 TB (SATA/SSD)	24 to 40 TB raw (SSD)	8 to 64 TB raw
Rec. # of Users	Up to 3,000	Up to 5,000	Up to 5,000
Max. Memory	64 GB	192 GB	-

Edge

- File Access Protocols: SMB, NFS, Web, rsync
- Hypervisor: VMware ESXi
- Local Optimization: in-line deduplication and compression
- Local High Availability: synchronous replication and failover
- User Authentication: Active Directory

Cloud

- Continuous asynchronization cloud and multi-site replication
- Accelerated desktop and mobile file sync & share
- User-defined caching and data tiering policies
- Cloud failover for offsite disaster recovery
- Bandwidth efficient global deduplication and throttling
- Configurable retention policy for file versioning and snapshots
- Cloud seeding for shipping and direct uploading of initial replica

Security

- Encryption: volume-level, in-transit (TLS 1.2) & in-cloud (AES-256)
- 100% private cloud option
- Private encryption keys
- DLP and antivirus integration

Management

- Multi-tenant administration
- Scalable to thousands of sites
- Group policies and service plans
- Central auditing and monitoring
- Remote access and firmware upgrades