

# CTERA Cloud Storage Solutions – for the Enterprise

Enabling deployment of cloud storage services to mobile workers, remote offices and branch offices (ROBO), CTERA's all-in-one solution provides managed storage, file sync & share, hybrid backup and mobile access – based on the private or public cloud infrastructure of your choice.

## Extend Cloud Storage Beyond The Datacenter

The CTERA Cloud Storage Platform allows enterprises to leverage both private and public cloud infrastructure to provision storage services to remote sites and mobile workers. It uses a combination of cloud storage gateways, end-point agents, mobile apps and a cloud management portal to deliver a secure, WAN-optimized solution that is easy to deploy and manage.

### Managed ROBO Storage

CTERA provides an all-in-one ROBO solution that combines remotely managed storage appliances with built-in backup and mobile file access. It eliminates the costs associated with local file servers, backup servers and tape drives, providing:

- **Simplified local storage:** Remotely managed appliances that offer network attached storage (NAS) functionality with integrated cloud storage.
- **Built-in data protection:** Backup software for workstations and servers. Encrypted cloud replication with data compression global de-duplication, and bandwidth control.
- **Low TCO:** Cloud storage gateways are highly cost-effective, include desktop/laptop agents, and replace file/backup servers and tape drives.

### Private File Sync & Share

CTERA offers an enterprise-grade file sharing solution, based on private or public cloud infrastructure integrated with existing Active Directory/LDAP systems with full control over user-specific encryption keys. It includes:

- **Cloud folder sync:** Selected files are automatically synchronized between users' desktop/laptop/mobile devices and designated 'cloud folders'. Self-service, simple, yet fully secure.
- **Project team collaboration:** Cloud folders used as workspaces for collaborating with colleagues. Supports multi-user, multi-folder sync, with read/write privileges, time-limited and ad-hoc access.
- **Mobile collaboration:** iOS and Android apps for secure file access and sharing.

### Hybrid Architecture

CTERA seamlessly blends cloud and on-premises, with a choice of appliances, software agents, mobile apps and web-based access that optimally support mixed environments of remote offices and mobile users:

- **Optimizing performance:** Appliances at remote sites reduce WAN load and provide fast local access to files.

Source-based de-duplication ensures high-speed backup and file sync for mobile workers.

- **Bring your own device (BYOD):** Authenticated users can securely access and share their data from any device, anytime, anywhere.
- **End-to-end security:** Strong source-based AES-256 encryption with private key management, ensuring that data is always protected both in the cloud and in transit.

## Technical Specifications

### BKcloud Portal

- Template-based management of all connected appliances and agents
- Multi-tier architecture with 'team portals' for departmental project workspaces
- Real-time monitoring, logging, audit trail, alerting, and software upgrades
- LDAP and Active Directory (including forest topology) integration
- Supports replication, high availability and load balancing
- Volume snapshots with configurable retention policy
- Full control over encryption keys

### CTERA Cloud Storage Gateways

- Full-featured NAS with RAID, resizable logical volumes, storage quotas
- Support CIFS, NFS, AFP, iSCSI, WebDAV, rsync and FTP protocols
- Automated incremental cloud backup with global block-level de-duplication
- Backup sets by path, size, type
- Active Directory integration
- 256-bit AES encryption of outbound data, SHA-1 fingerprinting, over SSL
- Bandwidth throttling
- Custom email alerts and reports
- Full remote management via Web UI

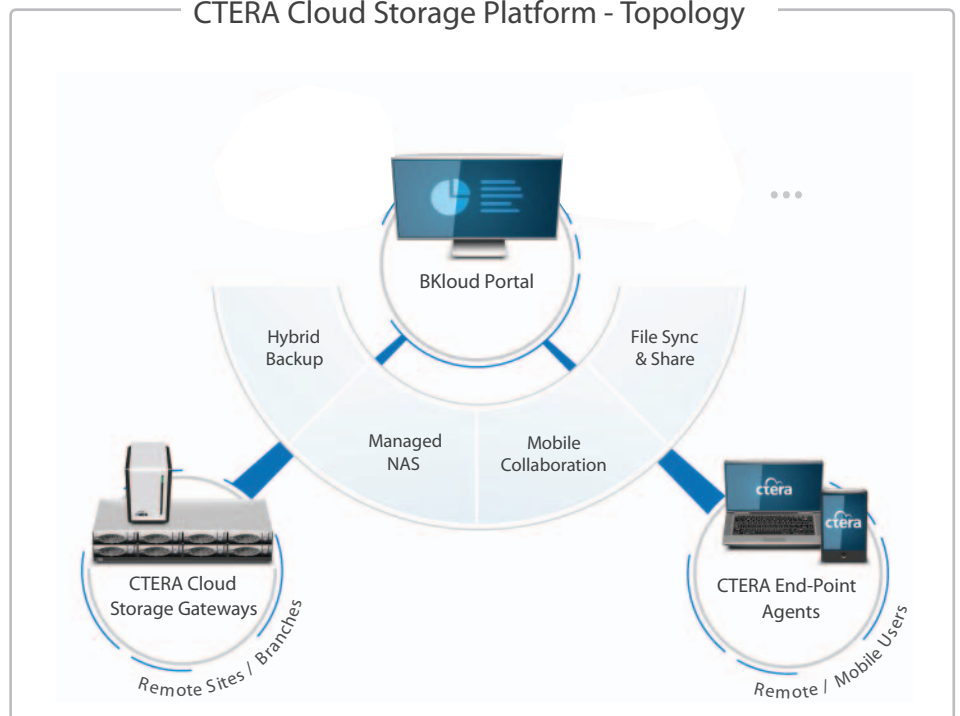
### CTERA Agents

- Secure laptop backup and cloud folder synchronization from a single UI
- Server backup and recovery for Windows, Mac and Linux
- File-level and 'bare metal' recovery
- Microsoft Exchange, SQL Server, SharePoint, and Active Directory backup
- Microsoft Hyper-V hypervisor-level backup

### CTERA Mobile Apps

- Secure access to files in the cloud and easy file sharing for Apple iOS and Android mobile devices
- Support for bring your own device (BYOD) policies
- Remote wipe and file sandboxing
- Two-factor authentication with SMS

## CTERA Cloud Storage Platform - Topology



## Summary

The CTERA cloud storage platform gives enterprises a fast and simple way to provision and manage cloud storage applications for remote sites, branches and mobile workers. A single platform can be used to provision and manage remote site storage, perform backup & recovery, and facilitate file collaboration.

CTERA's unique hybrid architecture combines a cloud-side service delivery platform with on-premises appliances, software agents and mobile apps – all with a unified management interface.

This enables delivery of storage services to diverse environments, while maintaining end-to-end security and optimizing performance and end-user experience.

By combining diverse storage-based services and addressing multiple use-cases under a single roof, CTERA eliminates the risks of consumer-grade file sharing use, and reduces the costs of datacenter storage and branch servers.