Enterprise File Services from Edge to Cloud

Aryan - Distribuidor VAD Ctera - Iberia

Juan J. Roncero

CTERA

Your Files. Your Cloud.

Connecting remote sites and users to your cloud without compromising security or performance

Founded by experts in cyber security

50,000 Edge filers deployed in 110 countries; industry #1

50 WW Fortune-500; top-5 banks, insurance, media & telecom

Unstructured Data
Getting Out of Control

3X   *Enterprise unstructured data stored as file or object storage set to triple by 2024, on-premises, at the edge or in the public cloud (80% outside of the datacenter)*

62%   *of enterprises already deployed or considering deploying distributed file systems*

(sources: Gartner, IDC)

Why Replace Your NAS with a Global File System?

- ✓ Never run out of space

- ✓ Keep data close to users

- ✓ Enable modern collaboration

- ✓ Reduce cost by 80%

YOUR FILES
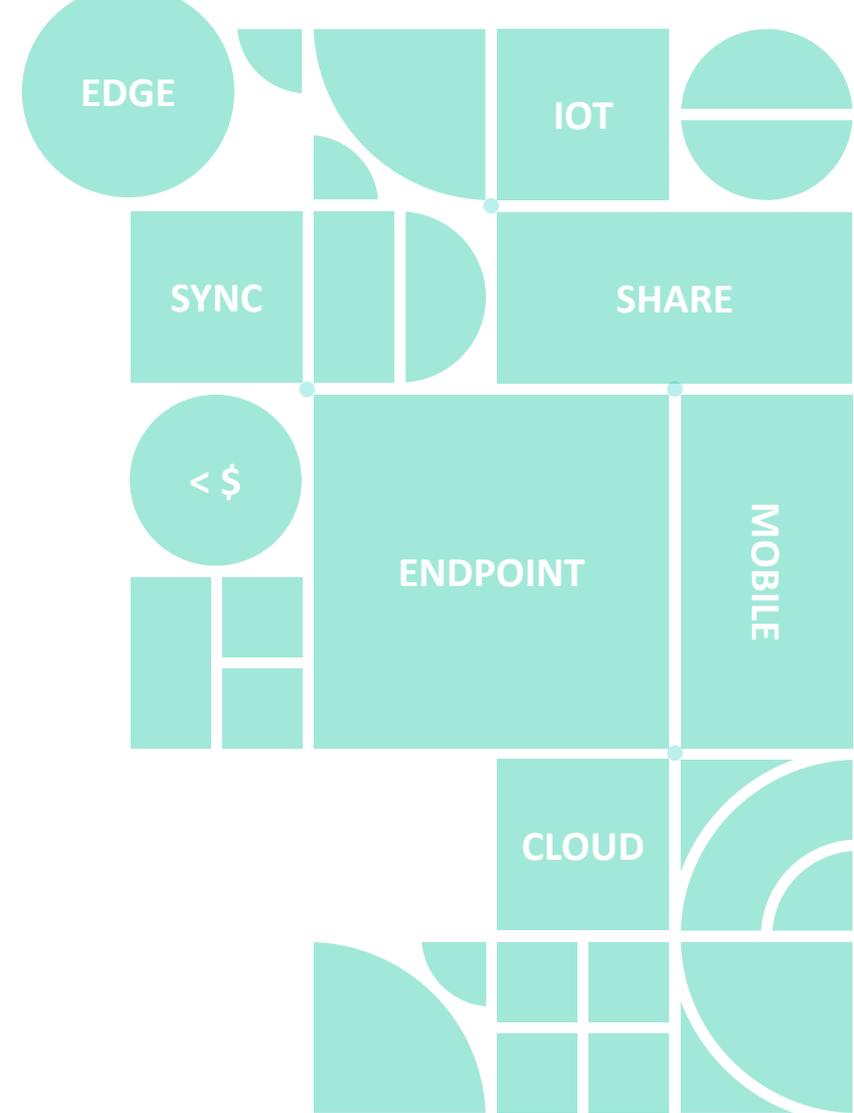
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your cloud.

Why Embrace a Software-Defined Multi-Cloud Strategy?

- ✓ Decouple software from infrastructure

- ✓ Control where your data resides

- ✓ Prevent cloud lock-in

- ✓ Comply with regulations

S3

AWS   AZURE

PRIVATE

HYBRID

PUBLIC

GDPR

YOUR CLOUD

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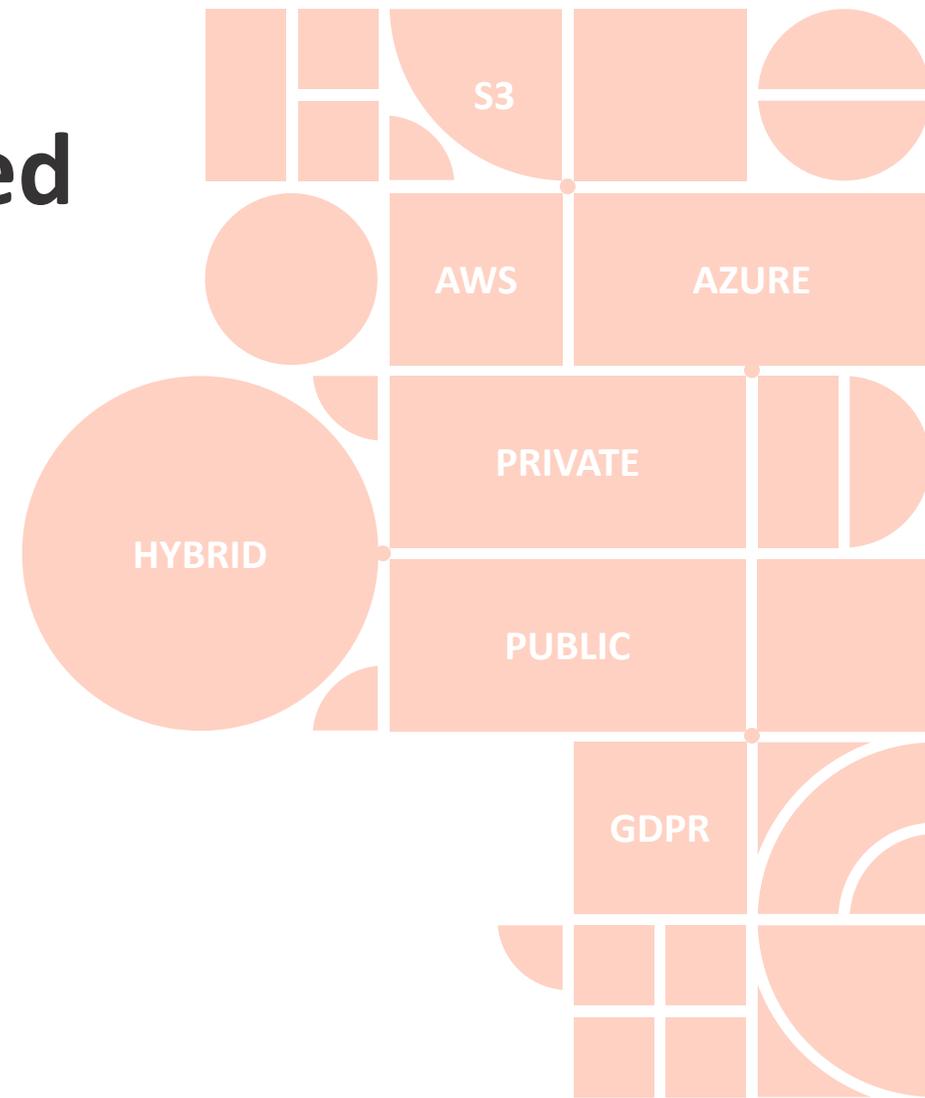
CTERA Enterprise File Services Platform

- Centrally managed global file system

- Accelerated access from distributed sites and users

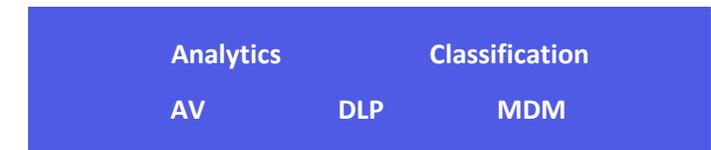- Military-grade security

- Multi-cloud ecosystem

YOUR FILES

CTERA Edge Filer

CTERA Drive App

API Web & API

CTERA Portal Global File System & Central Management

YOUR CLOUD

aws
IBM
Azure
DELL EMC
Hewlett Packard Enterprise

YOUR CONTROL
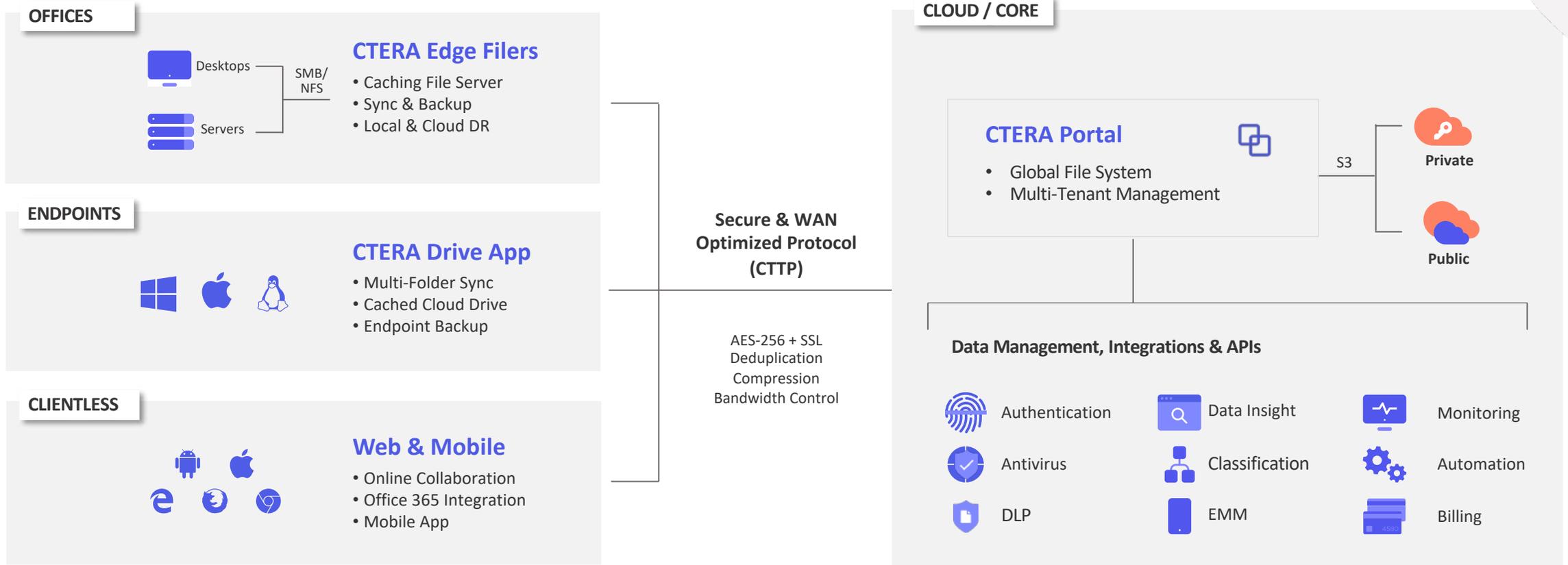
Analytics   Classification

AV   DLP   MDM

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The CTERA Architecture

CTERA Use Case

File Server Replacement

- Replace your NAS with a CTERA Edge Filer preserving folder and permissions structure

- Use adaptive caching to reduce onsite capacity by 80% with unlimited cloud scale-out

- Optimize network efficiency with global deduplication and bandwidth control

- Control security perimeter with source-based encryption and private cloud option

- Wide choice of physical or virtual filers, ranging from 2TB to 128TB usable onsite cache

/users
/projects
/archive

ctera
Global File System
S3
$0.01/GB/m

SMB

/users
/projects
/archive

CTERA Edge Filer
20% cache

CTERA Use Case

Multi-Site Collaboration

- Continuous file replication across filers, endpoints and clouds

- Scalable to 1000s of managed sites and users with multi-tenant administration

- Desktop agents for cached cloud drives and multi-folder sync

- Native mobile app for secure access from any device

- Authenticated file link invitations for external sharing and direct cloud upload
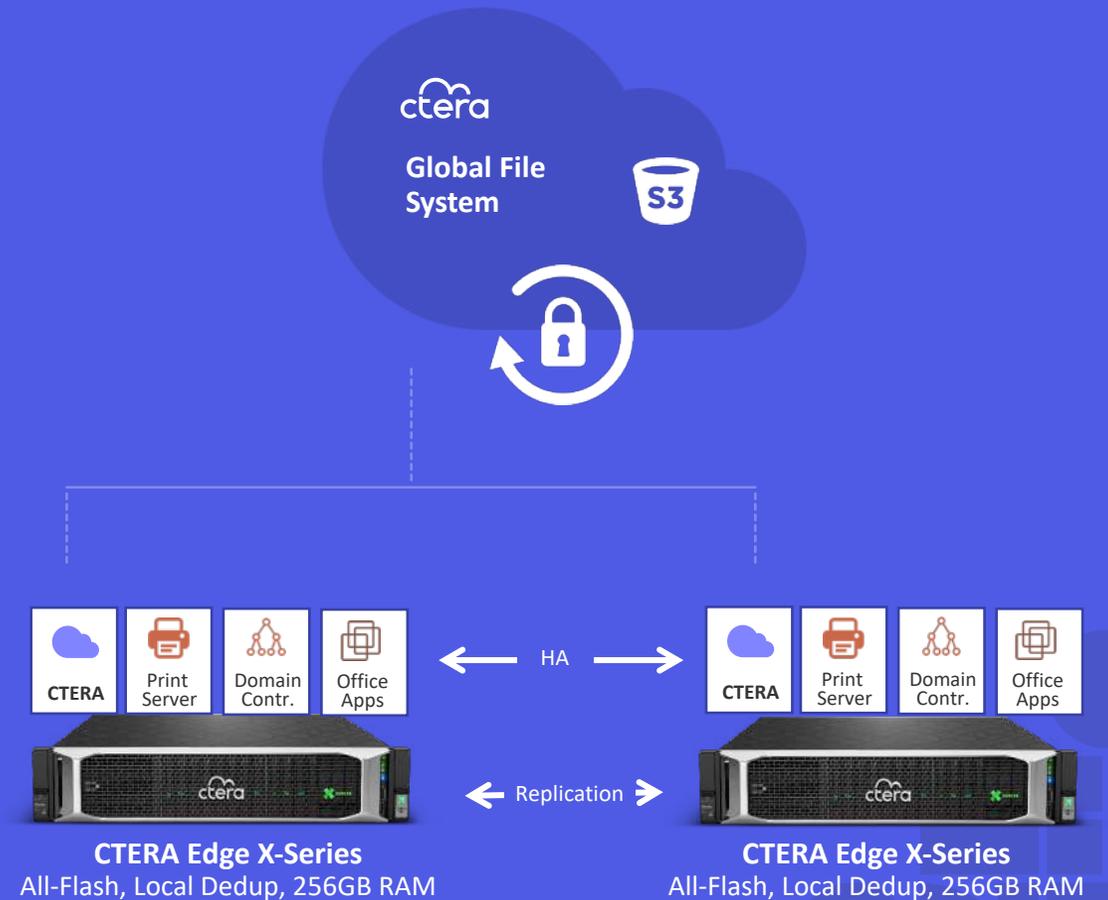
CTERA Use Case
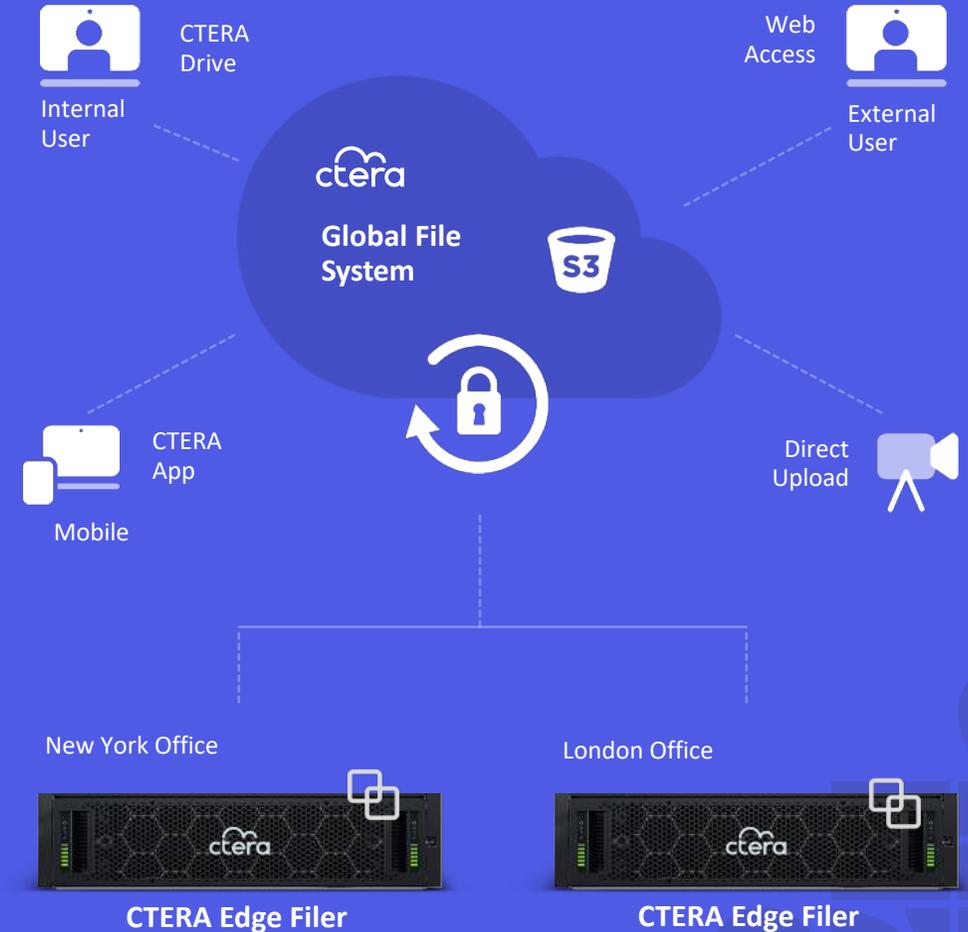
Secure Endpoint File Services

- Private cloud file services for up to 100,000 users in a single namespace

- Unified desktop agent and mobile apps for sync, share, cached drive and backup

- Authenticated file link invitations, outlook plugin and Office365 integration

- Edge filer extension for remote sites

- Multi-tenant administration

- White-labeling option
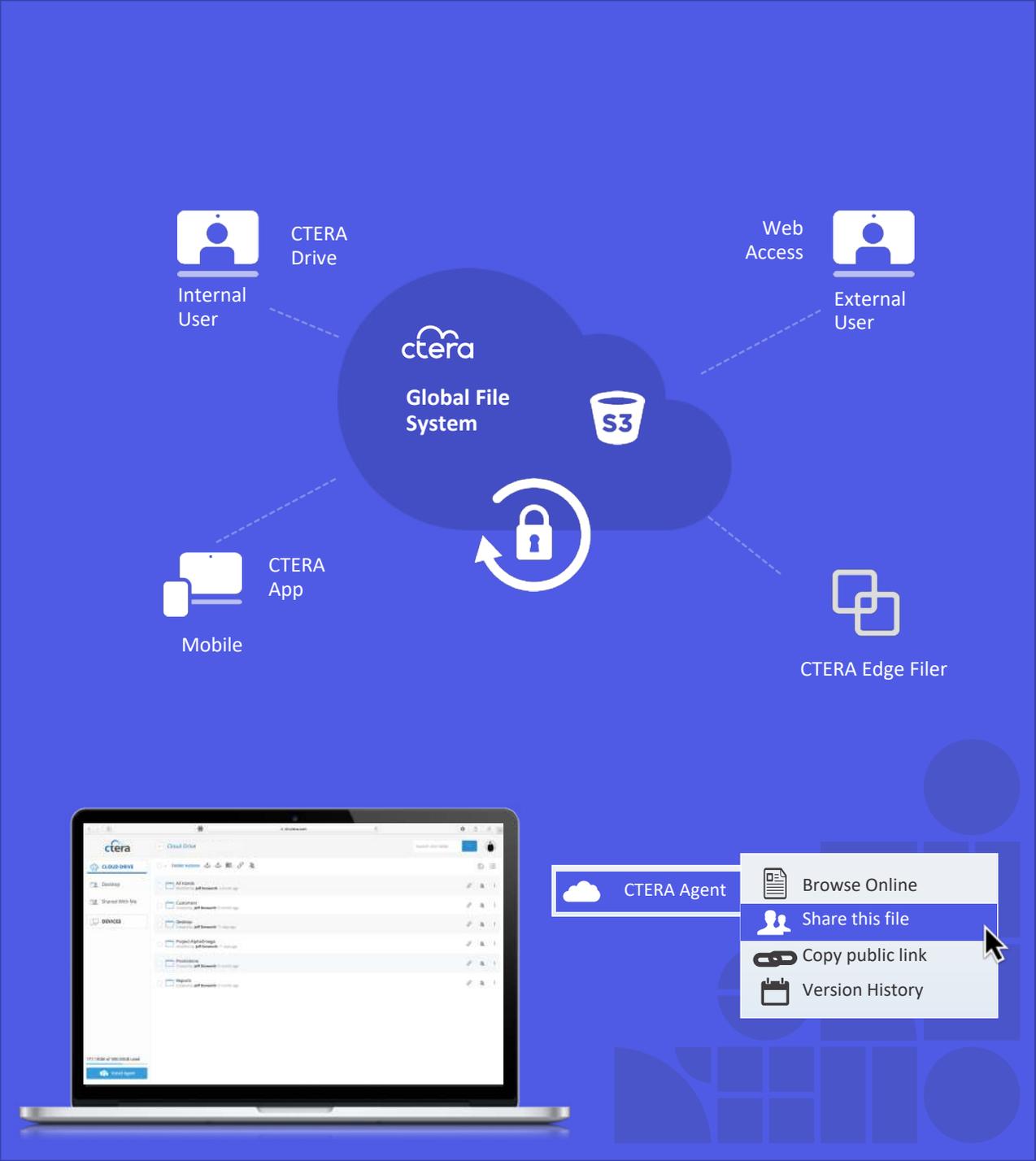
Hyperconverged File Services

- Unified file and compute for edge workload consolidation

- Optimized for branch-in-a-box, VDI and tier-1 applications

- High-performance all-flash with local deduplication and compression

- Always-on with high-availability, synchronous replication and DR

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Global File System
S3

CTERA | Print Server | Domain Contr. | Office Apps

← HA →

CTERA | Print Server | Domain Contr. | Office Apps

← Replication →

CTERA Edge X-Series
All-Flash, Local Dedup, 256GB RAM

CTERA Edge X-Series
All-Flash, Local Dedup, 256GB RAM

Media File Services

- CTERA Edge Filer system optimized for media content workloads and large file sharing

- PB-scale namespace with 128TB hybrid SSD/NL-SAS local cache

- 8k rendering, macOS and Adobe suite support

- Direct-to-cloud content upload for continuous operation of roaming users

- Multi-cloud for optimal cost and compliance

Uncompromising Security

- 100% private option, onsite or VPC

- End-to-end encryption with full control over keys

- File sharing policies with ACL migration

- MDM integration, antivirus & DLP scanning

- FIPS-140, GPDR, HIPPA & DISA APL compliance

Multi-Layer Data Protection

- Continuous replication with global deduplication

- Granular versioning with customizable retention

- Local & cloud failover options

- Endpoint backup clients

Total Data Management

- Central multi-tenant administration

- Scalable to 100,000 users and sites

- Online monitoring and analytics

- Data discovery and classification

- API extendable

Product Line

EDGE & DRIVE

CTERA Edge

Virtual Edition

CTERA EV
Up to 128TB, 5,000 users

Small Office

CTERA HC400T
Tower, 4TB, 100 users

Medium Office

CTERA HC400/E
1U, 24TB, 1,000 users

Large Office

CTERA HC1200
2U, 64TB, 3,000 users

Media Edition

CTERA HC2400M
6U, 128TB (SSD/NL-SAS)

Hyperconverged Edition

CTERA XC900/1200 HA
2x3U, 20/40TB (SSD), 5,000 users

CTERA Drive

CTERA Drive Share
Cached Drive, File Sync & Share

CTERA Drive Protect
Endpoint Backup

CTERA Drive Server
Server Backup

Product Line

PORTAL &
Add-ons

CTERA Portal
Private Edition

Customer hosted in
datacenter or VPC

CTERA Portal
Dedicated Edition

CTERA or partner hosted
from a dedicated VPC

CTERA Portal
Hosted Edition

CTERA or partner
hosted

CTERA Security Pack

Antivirus & DLP scanning |
FIPS 140-2 & DISA APL certification

CTERA Insight

Online data monitoring
and analytics

Data Classification

File asset discovery and
identification

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Your Cloud.

CTERA Case Study

WPP

The world's largest advertising group with over 250 subsidiaries and 130,000 Employees

" We chose CTERA to ensure our people work together for the maximum benefit of clients. "

Armin Razavi
Head of Architecture Governance & Platforms

GOALS

- Creative content management across thousands of agencies worldwide

- Enable cloud scale-out and productivity boost while keeping cost under control

- Ensure performance and security compliance

CTERA BENEFITS

- High performance filers with seamless migration from traditional NAS

- Media-specific enhancements for macOS and Adobe applications

- Seamless cloud integration

- Advance internal and external collaboration options

- Built-in business continuity with seamless local and cloud DR

- Multilayer security and compliance

CTERA Case Study

THE CARLYLE GROUP

> There's a lot of competitors out there, and we looked at all of them... but CTERA's security was the best for us. With CTERA we're able to solve our BCP problem, AND we're able to solve our global file sharing problem.

"

Jeff Pisano
VP of IT

GOALS

- Modernize remote file storage for dozens of global sites and thousands of users

- Comply to SOX and FINRA requirements for security and business continuity

- Tier data to Carlyle's VPC hosted on Azure

CTERA BENEFITS

- Cloud-attached managed branch storage with multi-site collaboration

- Endpoint collaboration client for roaming users

- Built-in business continuity with seamless local and cloud DR

- Seamless migration of shares and ACLs from legacy storage

- Comprehensive auditing and full control over data residency

- 80% TCO reduction vs legacy solution

"By reducing our infrastructure footprint and improving the user experience, CTERA allows our team to focus more on delivering products and services that align with business strategy."

Joel Eagle
Senior Director Technology & Infrastructure

GOALS

- Eliminate aging datacenter as part of new HQ move

- Accelerate cloud transformation

- Shore up business continuity and DR strategies

CTERA BENEFITS

- Unified platform replacing NetApp filers, backup software and file transfer tools

- 100% in-firewall, AD connected

- Private management connected to encrypted scale-out Azure storage

- Stateless local cache for accelerated access with cloud DR

- Seamless migration with full ACL enforcement

- 80% TCO reduction vs legacy solution

CTERA Case Study

> CTERA has enabled our IT team to transform its backup operation and become an internal service provider capable of delivering on-demand, cloud-based data protection services throughout the organization.

Matt McQuoid
Head of Senior Director of IT Operations Governance & Platforms

GOALS

- Distributed file services to 10s of regional offices and concert venues
- Cloud-based file services with LAN-speed NAS access
- Continuous backup and DR

CTERA BENEFITS

- Unified edge device combining all-in-one file sharing and backup
- Endpoint agents for access from any device
- Multi-cloud support

- IT-as-a-Service delivery platform
- Seamless migration with full ACL enforcement and zero impact on end users
- 80% TCO reduction vs legacy solution

CTERA Case Study

Humana®

> "CTERA fully aligns with our strategic IT priorities for cloud transformation, data privacy, and simplified user experiences."
>
> **Joe Glerum**
> Technology Manager | Open Systems Storage

GOALS

- Large-scale regulatory complaint endpoint protection and sharing

- Mitigate PII leakage and ransomware

- Multi-cloud enablement

CTERA BENEFITS

- Secure endpoint file protection and collaboration for 10,000s of users

- Unified agent for backup and sharing

- Open file (PST) handling and user self-restores

- 100% private, adheres strict healthcare data security requirements

- Minimized infrastructure footprint, supporting in-place object storage

- White-labeling supporting IT-as-a-Service agenda

Why CTERA?

YOUR FILES
- Replace NAS with a Global File System
- Boost productivity for distributed teams
- Never run out of space

YOUR CLOUD
- Enable multi-cloud
- Control data residency
- Prevent lock-in and reduce costs

YOUR CONTROL
- Large-scale management
- Military-grade security
- Smart data insights

Thank you.

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