2024-25 DCIG TOP5 ENTERPRISE MULTI-SITE FILE COLLABORATION

CTERA Solution Profile

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SOLUTION

CTERA Enterprise File Services Platform

COMPANY

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DISTINGUISHING FEATURES OF CTERA

- CTERA Global File System
- Global deduplication
- CTERA Edge Filers
- CTERA Drive Share
- Data security

DISTINGUISHING FEATURES OF TOP 5 SOLUTIONS

- · Multi-cloud support
- · Wide use case support
- · Robust technical support
- · Data security features
- VMware deployments

SOLUTION FEATURES EVALUATED

- Deployment Capabilities
- Data Protection and Security Capabilities
- Product and Performance Management Features
- File Collaboration Capabilities
- Technical Support
- · Licensing and Pricing

File Collaboration Challenges for Distributed Workforces

Many organizations rely on effective file-based collaboration for core business processes. This worked well when employees sat in offices with fast links to local file servers or network-attached storage (NAS) systems. However, for many organizations today, the workforce now spans the globe.

Consider that before the pandemic, an estimated 5.7% of working Americans worked remotely at home. That percentage grew by nearly 18% in two years. This excludes the 28% of hybrid employees that split their working time between home and office as well as remote workers located around the world.

All this to say, is that today's modern workforce spreads between office, home, mobile, and abroad. And when this dispersed workforce needs to work collaboratively on files using legacy systems, the result is frustration, lost time, lost money, and increased organizational risk. Given the competitive pressures any organization faces, implementing solutions that speed collaborative digital production brings multiple benefits.

The challenges around effective file collaboration using legacy systems include:

Limited scalability. Many legacy systems lack scalability to meet current and emerging enterprise capacity and performance requirements. As remote teams grow, on-premises NAS systems may struggle to meet the increased demand for remote file sharing and collaboration.

Version control. When a distributed organization lacks an effective file collaboration solution, troubles occur. An employee realizes they are working on the wrong version of a file. Or worse, they discover this after they have sent an incorrect version to a client. Team members lose time when they must compare versions to find and understand differences between two possible documents. Then, users must spend cycles to resolve and merge different versions into the correct one.

Unmanageable file data growth. Information Technology departments face a continuous increase in the amount of unstructured data they must try to manage. End-users and IT staff members often hesitate to delete files because they fear accidentally deleting something important or necessary. These dynamics contribute to file clutter and dramatically increase storage volumes. And since organizations must protect the data they store, backup and archive storage grow alongside their primary file storage.

Sharing files and folders. Sharing files and folders for collaborative work brings its own concerns. Legacy systems frequently depend on on-premises file storage, making file access challenging for remote workers. Sending files through email presents security risks, delivery failures, and out-of-date files floating around. If a team uses email to send documents, they must spend time messaging, making changes, then emailing files back. Enterprises can create VPNs or other shares for outside partners; however, this frequently involves manual activity and possible mistakes.

Data security and control. Traditional file-sharing approaches often lack security and compliance features. This lack can be a significant concern when collaboration involves sensitive information. Employee negligence, poor security, or compromised end points and storage media can result in data breaches. A single breach or attack can devastate a business and its reputation. Thus, the IT department needs better monitoring, control and visibility into the file data than is provided by many legacy systems.

Handling large files. Whereas a traditional local NAS infrastructure may handle large files with ease, this becomes problematic when sharing large files across the wide area network (WAN). File-sharing can become slow or even impossible when distributed teams are involved. And end-users must completely rule out emailing large files for collaborative work. These challenges slow or even stop workflows necessary for digital production teams.

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Latency. Centralizing file storage, whether on-premises or in the cloud, opens possibilities for multi-site file collaboration but also obstacles. WAN transfer speeds, mobile access, and competition with other applications over the WAN link can result in latency problems that make collaborative work tedious and time-consuming. For files hosted on-premises, a slow user experience is typical for anyone except those local to the hosted files.

Frustrations, costs, and risks. Organizations lose time and money because of the problems above. Additionally, legacy approaches do not provide opportunities for enterprisewide automation for efficiency benefits. These issues lower productivity, increase costs, and elevate risks to data security, revenue, and brand reputation.

IT departments experience control through their ability to assign file permission attributes at a granular level, leverage data security features to protect data from unauthorized access, and place data where it needs to be

for data sovereignty reasons.

SDS-based File Collaboration Benefits

Along with the change to a distributed workforce, organizations are integrating software-defined storage (SDS) solutions into their storage infrastructure for the increased flexibility, agility, and capabilities these software products offer. Many SDS-based file-storage solutions include features that enhance multi-site file collaboration and bring multiple benefits.

Scalability. As an organization grows over time, these file storage solutions allow IT departments to easily accommodate adding users, capacity, and collaboration services. The best software products provide consistent performance while scaling.

Version control. As a notable feature, these solutions help manage, track, and retain changes to files over time. Users can roll back to an earlier file version when mistakes are made or when an earlier version of the file is preferred. These solutions often provide audit trails that present all interactions with a file for compliance and security.

Modern file collaboration. These software products support file and folder sharing with internal and external stakeholders outside the organization. The degree of access can be customized based on need. Changes to collaborators' files are automatically updated to the authoritative source wherever located. To speed synchronization, only the portions of a file that have changed are transmitted across the network. One common feature of these solutions is their ability to handle large files smoothly.

Increased storage efficiency. By centralizing shared files and implementing effective version controls, companies realize savings on file storage. Many offerings also utilize compression and deduplication for more efficient storage and reduced data transmission. Thus, organizations save file storage costs and reduce WAN bandwidth needs.

Public cloud integration. SDS solutions commonly integrate with public cloud services. This opens opportunities for public cloud or hybrid cloud deployments. Organizations can leverage public cloud storage for archiving, backup, or hosting files for collaboration. Plus, public cloud providers offer a number of features for securing and protecting data from cyberattacks and unforeseen events.

Data protection, security, and control. With these products, IT administrators can holistically manage shared file data. IT departments experience control through their ability to assign file permission attributes at a granular level, leverage data security features to protect data from unauthorized access, and place data where it needs to be for data sovereignty reasons.

Fast file access. Frequently, these software products integrate technologies that provide fast access to active files for distributed teams and remote end users. For example, while the authoritative file may be stored in a private or public cloud, active data is cached locally for each office or end user. This speeds up performance and overcomes WAN latency issues when users or applications access data. File changes are updated on the back end and are invisible to the end-user. As a result, all users have a near-immediate view of file updates, contributing to a positive end-user experience.

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Automation. These file collaboration solutions provide automation features that save time and speed digital production. Many solutions support APIs that allow organizations to integrate file workflows with other software applications. Organizations can automate and orchestrate complex collaborative processes that otherwise would be error-prone manual endeavors. Automation saves organizations time and money and increases revenues by speeding up workflows.

In summary, these solutions speed file collaboration, improve end-user experiences, strengthen security, and reduce organizational storage needs. Ultimately, capabilities like these are essential for increasing the quality and speed at which organizations can produce digital assets for their internal and external stakeholders.

Distinguishing Features of DCIG TOP 5 Enterprise Multi-site File Collaboration Solutions

The 2024-25 DCIG TOP 5 Enterprise Multi-site File Collaboration Solutions report is an outcome of DCIG's research into the marketplace for software-defined storage (SDS) for file storage. Most solutions DCIG evaluated in this body of research reflect characteristic properties of SDS solutions. A deeper dive shows that a few reflect some, but not all, characteristics of SDS. These few do, however, offer notable file collaboration capabilities. In total, DCIG evaluated twenty-six solutions characterized as file collaboration solutions or software-defined storage solutions for file storage.

Using feature-based analysis and comparisons of data derived from publicly available sources, vendors, and DCIG's own experience, the solutions featured in the 2024-25 DCIG TOP 5 Enterprise Multi-site File Collaboration Solutions report share these characteristics that distinguish them from the other solutions DCIG evaluated.

Multi-cloud support. DCIG TOP 5 solutions evidence rich support for multi-cloud deployments and storage. All of these solutions support the major cloud providers, such as Amazon, Microsoft, and Google, both for deployment as a VM and as a target for storage. Such broad support offers flexibility in matching a cloud provider's capabilities with the needs of the business.

Wide use case support. Each of the DCIG TOP 5 solutions supports a wide variety of use cases beyond just file collaboration. This means IT departments can meet the needs of multiple applications or departments with a single file storage solution. Such wide use case support also enables organizations to leverage these storage solutions ongoing as business needs evolve.

Robust technical support. DCIG TOP 5 providers display robust support capabilities compared to the other evaluated solutions. All DCIG TOP 5 vendors provide 24x7x365 availability for trouble resolution, compared to 57% of the other solutions DCIG assessed. Each DCIG TOP 5 provider offers at least four-hour response times to reported troubles, with most offering one-hour response times or better for mission-critical issues. Administrators can utilize a knowledge base for online self-support, and all winners provide the opportunity for an assigned account manager.

Data security features. While cybersecurity software is the first line of defense against viruses and malware, DCIG TOP 5 winners offer many additional security features that help protect data from bad actors. For example, all winners offer both in-flight and at-rest encryption, Role Based Access Controls (RBAC) that limit access and permissions to users, Multi-factor Authentication (MFA) that requires two or more forms of authentication before granting access to data or systems, and file auditing and analytics tools that help identify security risks.

VMware deployments. All DCIG TOP 5 solutions support VMware VM deployments. This allows organizations to leverage the enhanced capabilities these SDS solutions offer with their existing VMware environment.

providers display robust support capabilities compared to the other evaluated solutions.

ctera Drive Share, an enterprise-grade file sync and share tool, provides home and roaming end-users the ability to access, edit, and share files from any laptop or mobile device for secure, internal, and external collaboration.

CTERA Enterprise File Services Platform

Upon DCIG's completion of reviewing multiple, available providers of SDS products, DCIG ranked CTERA as a DCIG TOP 5 provider. With the CTERA Enterprise File Services Platform, organizations can unify remote users, branch offices, and cloud file services into a single operating environment that combines the benefits of local file services with the advantages of unified cloud object storage. For flexibility on object storage, CTERA works with all major cloud providers. Alternatively, enterprises can deploy CTERA within a customer-owned or CTERA-managed private cloud. Administrators can oversee devices, users, deployments, and data stores worldwide through the CTERA Portal, which serves as the central management console for effectively managing enterprise file data.

Notable features that helped CTERA earn a DCIG TOP 5 award include:

CTERA Global File System. At the core of the CTERA Enterprise File Services Platform, it creates a single global namespace for all files and supports a full range of edge-to-cloud file services that enable LAN-speed file access, providing modern multi-site collaboration for users everywhere.

Global deduplication. CTERA employs source and target-based deduplication and compression, optimizing effective cache capacity and minimizing impacts on available WAN bandwidth. CTERA can deduplicate data blocks across multiple sites and users, whether in a specific geography, within a department, or across an entire organization.

CTERA Edge Filers. Organizations can simplify IT at the edge by replacing legacy file servers and NAS appliances with virtual or physical CTERA Edge Filers. The CTERA Edge Filer becomes an all-in-one solution for branch office storage, file collaboration, and backup. CTERA's intelligent caching of active files provides fast file access plus infinite storage capacity with minimal hardware at the edge. Streaming technologies allow users to access large files in cloud storage without copying the entire file locally. Through the CTERA Portal, administrators can centrally manage, monitor, and analyze file data stored in the cloud, at endpoints, offices, and mobile devices from a single pane of glass.

CTERA Drive Share. CTERA Drive Share, an enterprise-grade file sync and share tool, provides home and roaming end-users the ability to access, edit, and share files from any laptop or mobile device for secure, internal, and external collaboration. For external shares, administrators can set date limits for added security. CTERA's proprietary WAN-optimization protocols ensure fast file transfer across globally distributed sites. Built-in integration with Microsoft Office 365 supports collaborative, real-time editing.

Data security. From the endpoint to the cloud, CTERA encrypts all data with AES-256 and FIPS 140-2 validated encryption with keys generated and managed by the customer. CTERA is also certified and listed on the U.S. Department of Defense Information Network Approved Product List (DoDIN APL) and SOC 2 Type II certified. Additionally, the CTERA platform works from a zero-trust security model. CTERA fully supports features such as WORM, RBAC, AD/LDAP integration, and multi-tenancy. Further, infrastructure managers can leverage CTERA's cloud-to-cloud, cross-region, and cross-account replication to protect data from bad actors and unforeseen events.

CTERA's Ransom Protect provides real-time detection and blocking of ransomware attacks on edge filers. Ransom Protect can detect and block an attack within 30 seconds. With unlimited file versioning and CTERA's immutable snapshots, organizations can rapidly recover from an attack to a known good state. In addition, CTERA limits the spread of malware by scanning for known malware threats before transferring file data into the global file system.

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Sources referenced January 2024

About DCIG

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