

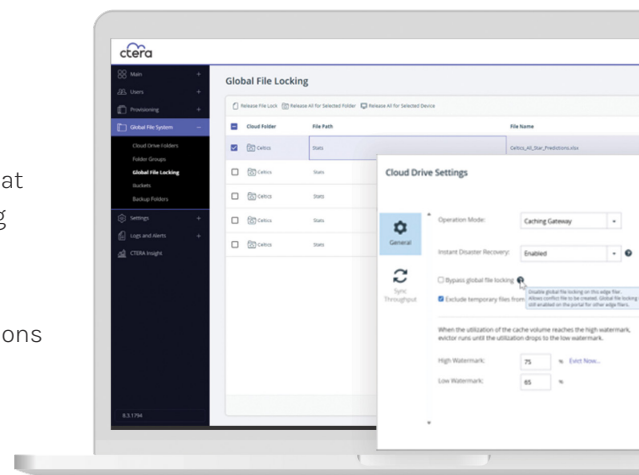


CTERA Global File Locking Data Service

High-Performance, Private Locking for Secure Collaboration

In a distributed enterprise, unstructured data is constantly being created and modified by users across multiple locations. While the CTERA Global File System provides unified access, collaborative workflows introduce the risk of version conflict. CTERA Global File Locking Data Service is a core service of the platform that solves this challenge by providing an authoritative, centrally-managed file locking mechanism that ensures version integrity for users everywhere.

The service is uniquely deployed 100% within the customer's private environment, ensuring that no file metadata is ever exposed externally, and lock/unlock operations occur with minimal latency without dependency on external infrastructure. This makes it the ideal solution for organizations with stringent data privacy and performance requirements.



Key Features

- ✔ **100% Private Lock Broker:** The Lock Broker service instance runs on the CTERA Portal within your private network perimeter. It maintains a real-time database of all file locks across the enterprise, guaranteeing complete data sovereignty.
- ✔ **High-Performance Locking:** The protocol is lightweight and optimized for high-latency WAN environments. By brokering locks centrally in real-time, the system ensures that remote users experience immediate, responsive locking without productivity-killing delays.
- ✔ **Centralized Lock Management:** Administrators have a real-time, global view of all active file locks via the CTERA Portal. The dashboard shows which user has which file locked, from which location, and for how long.
- ✔ **Manual Lock Override:** For situations where a file is urgently needed, administrators have the authority to manually release any file lock directly from the portal.
- ✔ **Automated Stale Lock Protection:** Automatically detects and clears locks from user sessions that have terminated abnormally (e.g., workstation crash, network loss), preventing files from becoming indefinitely locked.
- ✔ **Optimized Application Support:** Designed for applications using the Server Message Block (SMB) protocol, ensuring broad compatibility with key enterprise software suites from Autodesk, Adobe, SOLIDWORKS, Microsoft, and more.
- ✔ **Read-Only Access:** Users are offered safe, read-only access to locked files, ensuring that workflows that require viewing—but not editing—can proceed without interruption.

How It Works

The CTERA Global File Locking Data Service architecture is comprised of CTERA Edge Filers at each location and the central Lock Broker service running on the CTERA Portal.



Protect Data Integrity

When a user opens a file, the Edge Filer sends a lock request to the private Lock Broker. The broker grants a lock, preventing any other user from making a conflicting edit. This proactive lock protects against data overwrites and version conflicts at the source.



Detect Conflicting Access

If another user attempts to open the locked file, their local filer checks with the broker. The broker detects the existing lock and denies the second user's request for write access, enforcing a "first writer wins" policy across the entire CTERA Global File Locking Data Service System.



Respond and Release

The system responds to the second user by notifying them that the file is in use and offering read-only access. When the first user closes the file, the lock is instantly released by the broker, making the file available for the next user to edit and ensuring a fluid, productive workflow.



Key Benefits

- 1 Prevent Data Breaches and Corruption**
By keeping all lock metadata 100% private and preventing version conflicts, the system protects valuable intellectual property.
- 2 Integrate With Your Existing Workflows**
The file system-level operation ensures seamless integration with your existing SMB-based applications and requires no change to user behavior.
- 3 Accelerate Incident Response**
Administrators can immediately identify and resolve workflow bottlenecks by viewing and managing all active locks from a single dashboard.
- 4 Ensure Regulatory and Internal Compliance**
Meet strict data sovereignty and privacy mandates by ensuring no file system metadata ever leaves your secure network.
- 5 Defend Against Productivity Loss**
Eliminate the costly rework and project delays that occur when multiple users inadvertently overwrite each other's changes.

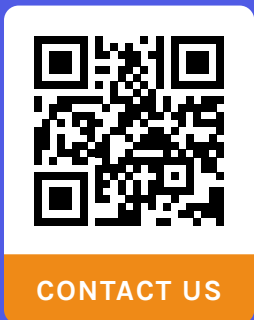


AVAILABILITY

Global File Locking Data Service is available as a licensed add-on Enterprise Data Service for the CTERA Intelligence Data Platform.

Learn more about how CTERA Global File Locking Data Service can enhance collaborative workflows by visiting our website or contacting a CTERA representative today.

[LEARN MORE](#)



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