

Solution Brief



Additional **security** for your sensitive **files**.



Keep **control** of your **data**.



Collaboration functionality is preserved.

ShardSecure for Microsoft 365

ShardSecure adds defense-in-depth for sensitive files in Microsoft 365 while control of your data remains in your hands without sacrificing functionality.



Data Security for the Workplace

Whether your organization is in finance, law, biotech, pharmaceuticals, or another highly regulated field, a data breach can have disastrous consequences. In the wrong hands, sensitive data can ruin a business, threaten personal safety, and result in steep fines for organizations.

In addition to protecting privileged data, organizations also need to be able to share and collaborate on that data in the workplace. ShardSecure can help by desensitizing your sensitive information across Microsoft files for better data security and data privacy.



ShardSecure's Integrated Microsoft 365 Solution

Our patent-pending Microshard™ technology natively integrates with Microsoft 365 to support organizations who want:

- Additional protection and privacy for sensitive documents containing intellectual property, regulated and compliance data, customer and employee data, company financials, and more.
- Native support for multi-cloud and hybrid cloud.
- The flexibility in using the cloud storage configuration that best supports the business.



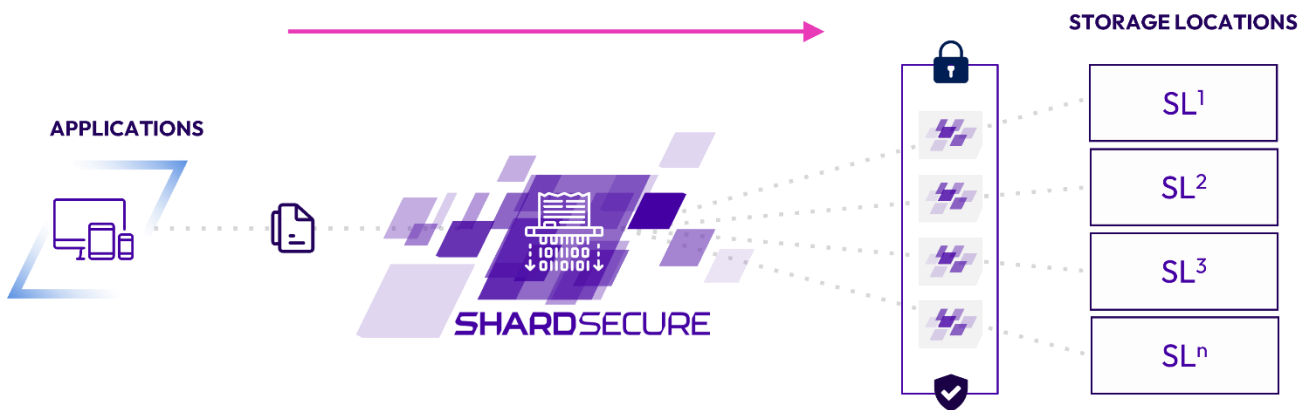
A Seamless Experience for Microsoft 365 Online Users

We are a certified Microsoft Cloud Partner and use native Microsoft APIs to create a smooth experience for Microsoft 365 Online users. Excel, Word, and PowerPoint files can be shared online and in real-time for seamless collaboration while we work in the background to make your data undesirable to attackers and unauthorized users. We also make it easy to copy one, several, or all of your files from OneDrive to our SecureDrive with a click of a button.



How We Do It

Our Microshard technology desensitizes your sensitive data to help ensure that it is unintelligible and of no value to unauthorized users. Here's how.



- **Shred:** Microshard technology begins by shredding data into four-byte microshards that are too small to contain a complete birthdate, social security number, or any other piece of sensitive data.
- **Mix:** Next, poison data is added and the microshards are mixed into multiple Microshard containers. Identifying information like file extensions, file names, and other metadata are removed. This renders your data—confidential or otherwise—completely unintelligible to unauthorized users.
- **Distribute:** After being mixed, the Microshard containers are distributed across multiple, customer-owned storage repositories. These storage repositories can comprise multi-cloud or hybrid-cloud configurations.



Data Confidentiality, Integrity, and Availability

Microsharding adheres to the CIA triad pillars of confidentiality, integrity, and availability. Data confidentiality is maintained shredding, mixing, and distributing data as described previously.

Data integrity is enforced through multiple data integrity checks that detect and roll back unauthorized deletion of and/or tampering with Microshard data, including cloud storage ransomware. And while these types of activities are neutralized, your application users continue working without interruption.

Data availability and business continuity are maintained, even during a cloud storage service outage. Our RAID-5-like ability to reconstruct affected Microshard data means that your business operations can continue functioning like normal. Additionally, our virtual clusters support high-availability and failover functionality within a cluster and among multiple clusters to help ensure your critical data at rest stays secure and available.

Learn More

Visit us at <https://shardsecure.com> to learn more and schedule a demo.

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