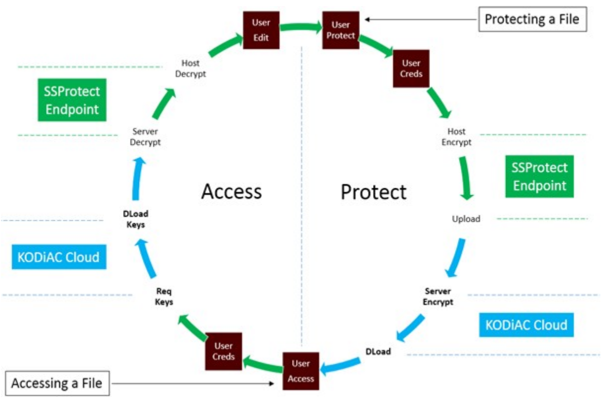
Simple Security: Protect
Protect. Manage. Respond.

DefiniSec is proud to announce **SSProtect**, an integrated suite of software products designed to protect your application data from today's and tomorrow's most advanced threats. Based on the patented **KODiAC Architecture**, each component contributes unique innovations not available anywhere else.

Using a self-service deployment model and native application access, **SSProtect** greatly reduces data exposure risks without requiring in-house expertise. Simply stated, **SSProtect** is the rare combination of strong protection with the unexpected ease-of-use not available using traditional security software.



In-Place Encryption: Highly Effective, Non-Intrusive Protection

Real-Time Dataflow Management

SSProtect introduces a unique mechanism that monitors and controls sensitive data files, intercepting disk access and acquiring two-factor authentication credentials before decrypting and providing plaintext to the native application. This allows you to work with protected content just as you always have. And because the mechanism works at the driver level, additional access to plaintext is blocked, providing an exclusive session for your application. This combination of low-level security and high-level native application access mitigates host impersonation threats without changing the way you work.

Two-factor Authentication w/ Physical Presence

Two-factor authentication is often applied incorrectly, and attackers wait for users to login and provide 2nd-factor credentials before proceeding to steal unlocked materials. SSProtect minimizes exposure by integrating fine-grained, on-demand 2FA for every authorized action. When paired with USB keys that require touch-authentication, this integrated physical presence requirement stops remote access impersonation threats without compromising ease-of-use and native workflow integration.

2-Party Consent Trust Model: The Final Word in Authorizing Access

Isolated Cryptographic Operations and Keys

SSProtect distributes cryptographic materials required to decrypt files, only combining them when you provide authorized credentials. By that time, data flows have been locked down and content strictly isolated to authorized applications and user access. Our patented cryptographic offloading solution ensures that data re-encryption retains key isolation, enforcing access controls and data obfuscation without exposing plaintext on compromised hosts or to cloud service providers.

Stop Government Subpoena and Eavesdropping

KODiAC implements a two-party consent trust model between you and your service provider. Protections follow data, and only you decide who can access protected content, at all times. Plaintext information is truly isolated from cloud services - both you and the cloud service provider retain components required to access plaintext data, independently. Only when both agree to combine decryption materials will you and your peers gain access. One-sided compromise is not enough, which means government subpoena of cryptographic material or even a breach of cloud resources will never deliver plaintext data. You always retain final say, and thus have perfect insight into who accesses protected data, when, and how.

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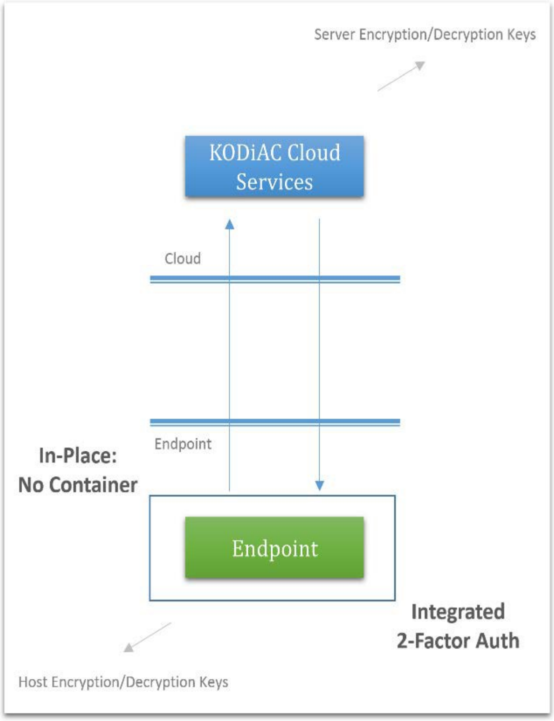
Secure Access Auditing: On-Demand Data Exposure Risk Reporting

Retain Deterministic Access Records

Because KODiAC Cloud Services provide a central control point for the distribution of decryption materials to authorized users, they are able to retain a complete, isolated, secure record of data access events. Coupled with SSProtect client authorization, this provides total visibility into who, when, from where, what, and how sensitive content is accessed. When used with proper chain of custody proceedings, data retains forensic viability. SSProtect provides priceless insight into events leading up to and including unauthorized access attempts that otherwise can cost 10s if not 100s of thousands of dollars to discover.



Immediate Insight into Breach Exposure

It is implausible to speak of a perfectly secure network of information. As security events occur, insight into data access and exposure of sensitive materials to malicious dynamics provides a critical understanding of how to best respond. With SSProtect Data Access Reporting, you can immediately, at any time, generate a report of all access events for a preselected period of time.

:Respond builds on this insight, analyzing content to prioritize objective disclosure risk results. This deliver unprecedented and near-instant insight into items that have been accessed during breach events. Determine immediately if information has been put at risk. Decide on the spot how to take your next best steps. No more teams of investigators taking over your network for weeks at a time to provide a, “Maybe” – with SSProtect, you have the answers any time, all the time.

Ransomware: A Constant Threat

Inline, Integrated Version-based Backup and Restore with Honeypots

:Recover allows you to store individual versions of protected content for recall at any time. It uses the same mechanism designed for data protections, thus restoration is nearly guaranteed. If you or any member of your team is the victim of Ransomware, because your information is encrypted, you will not be the subject of embarrassing public disclosure. At the same time, you can erase the sabotaged components and replace their encrypted copies with the latest genuinely secured version from your SSProtect cloud archive. And now with Honeypots – essentially hidden electronic landmines attackers will not recognize – you cast a wide net and receive warnings for additional anomalous behavior that slips past other controls.

Disaster Recovery with :xRecovery Organization Archive Retrieval

Network Administrators need visibility across multiple systems and protection from internal sabotage. Access a copy of your entire Organization’s data archive at any time with a secure offline copy. Never again worry about a disgruntled employee destroying data – you have constant access to stored, secured content that cannot be erased by any Organization User. This provides complete Disaster Recovery for any scenario. With our network of Data Centers and multiple layers of multi-node replication, you will always be able to acquire your information, even when entire cloud regions are temporarily unavailable.

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Seamless Collaboration, Internally and Externally

Automatic Data Sharing Minimizes Impact

Secure data sharing often requires that you choose for whom encrypted data is to be shared when you save it. Why? Because behind the scenes, that's how public/ private key pairs, certificates, and asymmetric cryptography works. Though great for engineers, it's not helpful for the rest of us. At DefiniSec, we hide the details from you and provide instant, automatic secure data sharing for all members of a single team or Organization. Deploy to any number of Users and share data just like you would with normal application files – content remains protected and accessible to teammates, but not to intruders.

Third Party Trusts for External Collaboration

Data can also be shared outside an Organization with Third Party Trusts. These are one-way association that permits you to extend access permissions to SSProtect Users outside your organization. You retain complete control – secured access, auditing, backup and restore – while allowing individuals in other companies to access your data. They in turn can authorize you to access their content, creating a seamless two-way trust. Revoke at any time or extend to others – while continuing to use your favorite cloud sharing platform, thumb drives, or email – it's up to you and your IT department. We just protect it.

Protect Against 0-Days: Secure Code Built from Scratch

No Use of High-Risk Libraries

SSProtect was built from scratch, and does not use common libraries. No TLS/ SSL, no OpenSSL. It seems every month a new critical issue is found that has likely been exploited by nation-state operators for quite some time. With SSProtect, these 0-day threats less significant because they are present in libraries we don't use. The NSA in 2013 spent over $25M for 0-day threats, meaning they can more than likely compromise most any popular platform. And because these critical vulnerabilities require constant patching, SSProtect retains a high degree of decoupled protection, even when you can't deploy patches immediately.

Minimal Cloud Attack Surface Without REST, Without Webservers

Webservers provide a great deal of functionality, but are ever-changing and difficult to secure. SSProtect and KODiAC do not use web services, thus do not have the burden associated with constantly chasing patches. No Flash, No Java, No TLS/ SSL. KODiAC also avoids the use of at-risk REST API tokens, which though popular are not secure on compromised hosts. This risks access to sensitive cloud content, which we avoid. In fact, the SSProtect attack surface is limited to a single protocol on a single TCP/IP port replicated for high-availability. That's it – nothing further, nothing fancy. Simple. Easy. Secure.

Protect. Manage. Respond: Bringing Certainty to an Uncertain World

Available On	Microsoft Windows 7/ 10, Server Editions, Email Protection for Outlook/ Office 365
Cryptography	MS CNG-API w/ Patented Offloading; AES, GCM, RSA, ECDH, PBKDF2, SHA/ MD5
Footprint	< 8MB SSProtect Core Applications/ Driver, < 40MB total w/ integrated Tutorial/ Reports

Contact:

General Information	*info@definisec.com*
For Career Opportunities:	*careers@definisec.com*
For Support:	*support@definisec.com*

DefiniSec operates in the San Francisco Bay Area
and offers solutions for companies operating in
the United States. Inquire within for International commerce.