

THE OUT-OF-CONTROL STATE OF DATA SECURITY

Today's software applications create incredible numbers of files at an unprecedented speed. Each of those files is unprotected and uncontrolled by default when created, and is incredibly easy to copy, alter and steal. As a result, after those files are created, we invest hideous amounts of precious information technology dollars to secure them, implementing a complex patchwork of network, device and data protections. We may also hire additional software developers with security expertise to modify the particular software applications, in a market where those valuable skills are becoming increasingly scarce. New technologies offer the possibility to outsource key aspects of the security infrastructure necessary to truly secure files as they are created, but those technologies often force an organization to discard other important systems they've already purchased and instead use those provided by the outsourced security technology firm. This maddening cycle is out-of-control, and makes the strategic imperative of managing data security in an effective and cost-efficient fashion nearly impossible.

THE ABSIO SOLUTION

Originally developed to secure intelligence information in a battlefield environment, Absio's technology enables software developers to integrate powerful security features directly into the applications they build, without needing to become security experts. Absio technology solves the following data security problems:

- **Unauthorized access** to application data stored on devices and servers inside or outside the organization
- **Interception** of application data in transit
- **Unintended redistribution, alteration or misuse** of application data
- **Hassle of generating, managing and sharing encryption keys** with users inside or outside the organization
- **Reliance on third-party service providers** for access to application data

Absio's technology is available as a suite of software development kits (SDKs) for C#, Node.js and JavaScript. The Absio SDKs include multiple technical capabilities that can be integrated into software applications with a few simple method calls, including:

- **Automatically encrypt every file** created, processed or stored by an application with a unique content key, without relying on a central encryption key server
- **Automatically generate, manage and exchange encryption keys** allowing organizations to easily share files inside and outside their network securely
- **Cryptographically bind control information to each file** determining the time, manner and extent of any use of the file once decrypted
- **Store encrypted content and content keys locally for offline access** without putting files at risk
- **Individually encrypt/decrypt files real-time in memory**, and delete the content when no longer needed if the encrypted data does not need to persist
- **Inherit file access and use controls** from existing access management and policy engines

All these features can be implemented without negatively impacting application performance, restricting existing application logic, or degrading user experience. Never before have so many capabilities been bundled in one simple security solution, without needing to rely on a third-party service provider. At its core, security is a software problem. Let Absio show you how to solve that problem in a cost-effective way.

For additional information on Absio Developer Tools, please contact us on sales@absio.com or sales@britecloud.com