



## SHIELDIO OPENING ENCRYPTED DATA FOR SECURE SEARCH AND ANALYTICS

Making dark data available enabling field and subfield level Role Based Access Control (RBAC)

### The Problem

Every organization, is faced with protecting their growing structured and unstructured data stored in document and data stores. In most cases the data or documents contains sensitive details that need to be kept confidential while providing access based on user RBACs. This data could be personal information that can identify an individual (PII), health information about an individual (PHI), credit or debit card details from purchases (PCI), or maybe intellectual property or other confidential data that is sensitive for the organization. With ShieldIO SDaaS the data owners encrypt the data and fine tunes the RBAC based user access need down to the field and subfield level while opening encrypted data for use.

### The Inhibitors to Compliance

Using traditional approaches to secure data, both structured (Databases) and unstructured (Documents and Content) can lead to restricted access rights, with limited flexibility/availability resulting in either customer dissatisfaction limiting revenue potential or opening the data to external/internal accidental or malintent data breaches.

There are several concerns with standard encryption approaches, such as: keystore breaches, access vulnerabilities, inflexible restrictive access, lengthy implementation cycles. Some standard encryption products secure the data when it is stored in a database, however, they need to decrypt the data for use. Thus, the sensitive data may be vulnerable while in use in memory or application. Others can secure the data in use; however, this technique means that the encrypted data is no longer searchable and this limits the use and value of the data.

### Potential Cost

The costs of a data breach can be great including share price reduction, damage to a brand, dismissal of individuals, corporate and individual fines, loss of intellectual property, exposure of confidential information, and the cost of implementing customer retention tactics after a breach. Organizations can not afford to be non-compliant.

### The Solution

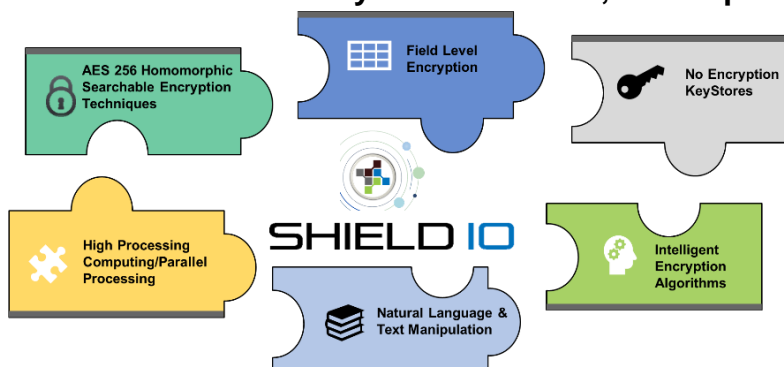
Shield IO Secure Data as a Service (SDaaS<sup>®</sup>), enables keystore-less encryption for your data, (structured & unstructured) while not limiting its' use, allowing for greater granularity for RBAC keeping the implementation cost low while helping you to become compliant and secure quickly and cost effectively. ShieldIO, secures data, stopping insider threat to the data and external breaches, while enabling full use of encrypted data for analytics, searching, reporting and applications.

Document Shield secures unstructured content without having to migrate or redact content.

Developer Shield secures the database to enable developer and testers access to all data without ever seeing sensitive data.

ShieldIO SDaaS<sup>®</sup> encrypts and secures your sensitive data stored in memory, on-premise, Multi Cloud or hybrid environments without limiting data use and without breaking existing applications while allowing fine tuning of user access rights down to field and subfield level. SDaaS<sup>®</sup> is a cross platform, solution running on different cloud platforms, databases, content management systems as well as embedded Industrial Internet of Things (IIoT) devices.

## ShieldIO Secures your Production, Development Databases and Content Store



Using the latest technologies such as Artificial Intelligence, High Performance Computing and Natural Language, maintaining the foundations of Security and Ease-of-Use, supporting quick and cost effective implementation

**ShieldIO SDaaS<sup>®</sup> Server – Document Shield – Developer Shield**