Use cases

Whether confidential data are personal or patrimonial,

the same need prevails when it comes to share data sources: how to reconcile data usage while ensuring maximum security & privacy of the data.

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Explore Our Use Cases.

Bank & Insurance
Collaborative Customer Analytics & Scoring

Insurance
Privacy-preserving analytics in Group Data Lake

Data Science Model Development and Execution
Identifiers desensitization & data protection at execution

Financial Services
KYC & Scoring Platform

Med Tech
Sensitive Data & IP Model Protection

Energy Provider
Confidential Times Series Analytics

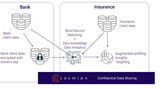
Industrial Equipment Manufacturer
Customers' Confidential Data Pooling for Optimization Services

Security Operations Center
Cyber attacks detection and monitoring

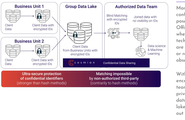
Bank & Insurance: Collaborative Customer Analytics & Scoring

Within the same Banking Group, different departments can now process legitimate analytics across internal services to deepen their scoring algorithms without accessing each others' client data in clear.

+ **Solution: Secure Computation on Confidential Data Sources**



Insurance: Privacy-preserving analytics in Group Data Lake



Managing and protecting access to confidential data in a data lake pose key issues to Data Protection Officer (DPO) and IT teams. Even when anonymized with hash techniques, confidential identifiers are still exposed to re-identification or reverse profiling via third-party observers.

With Cosmian confidential identifiers encryption technique, DPOs and IT teams can ensure compliance with privacy regulations while allowing data teams to safely access the data lake, and generate business value out of the data.

+ **Solution: Privacy-preserving Data Lake**

Data Science Model Development and Execution: Identifiers' desensitization & data protection at execution.

Actual anonymization techniques limit sensitive data processing by removing identification: for instance, data set matching is not possible on anonymized data.

With Cosmian, at the initial stage of Data Modeling Development, Data Science teams can now work right from the start on desensitized, encrypted confidential data sets.

Last but not least, when the Data Model is pushed to Production, the execution is secured because it will keep on running over encrypted, confidential data.

+ **Solution: Secure Computation on Confidential Data Sources**

Financial Services: KYC & Scoring Platform

When it comes to strengthen know-your-customer (KYC) processes, third-party financial partners are ready to work hand-in-hand to share their data with banks, but no one is ready to share access to its own customers' confidential information in clear text.

With Cosmian, each party can encrypt its customers' confidential data and authorize only KYC scoring algorithm to query the encrypted data – without ever revealing the underlying data.

+ **Solution: Secure Computation on Confidential Data Sources**

Med Tech: Sensitive Data & IP Model Protection

Innovative e-health tech companies develop patient prevention & monitoring services processing data sets from various medical institutions or medical devices on their proprietary interconnected platforms.

But in most instances, data providers are reluctant to give access to their medical data (in clear text or encrypted). And conversely, medtech companies are vigilant to let their algorithms run openly on their clients or partners' data servers.

Discover how Cosmian help to secure both privacy of proprietary algorithms and confidential data providers.

+ **Solution: Secure your model & algorithm assets when deployed in your client infrastructure**

Energy Provider: Times Series Analytics on Confidential Consumption Data

Time series analysis prove very insightful to determine consumption patterns and predict for consumption behaviours. However, indeed, if performed directly on confidential data in clear text, these analyses can reveal far more than only consumption patterns.

With Cosmian, times series analytics models can now safely run on encrypted confidential data, enhancing data privacy.

+ **Solution: Secure Computation on Confidential Data Sources**

Industrial Equipment Manufacturer: Customers' Confidential Data Pooling for Optimization Services

Loads of data are generated by industrial manufacturing. One green equipment manufacturer would like to exploit its customers manufacturing data to optimize each customer's production line – while preserving each customer's data confidentiality (processing, quality, suppliers...).

To do so, the industrial manufacturer can encrypt all respective customers' confidential data sets, run over its proprietary optimization algorithm – and exploit the results without ever disclosing its customers' data.

+ **Solution: Secure Computation on Confidential Data Sources**

Security Operations Center: Cyber attacks detection and monitoring

Discover how in situation of malicious attacks, multi-party IT teams can interact with each other in order to share behaviours patterns they detect have manifested elsewhere without ever having to disclose they are under attack.

+ **Solution Secret Search on Common Confidential Events**

Technology
Discover how our Technology is addressing your needs for data security & privacy.

Solutions
Browse our Solutions to lorem ipsum dolor sit amet, consect etur adipisc et

Resources
Dev stacks, case academic papers, demo videos ... You name it

Contact Us
Interested to implement our privacy by design solutions? Contact us

News, Articles, Resources.

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