



DATA PROTECTION



Lufthansa Systems

FINANCE
SOLUTIONS

sEngine – the Data Security Engine

Shield your customer and company data – quickly and simply

Cyber crime is a global menace. Hacker attacks are threatening companies and their customers more and more. Fighting cybercrime is at the very top of the agenda. The European Union (EU), for example, has established the General Data Protection Regulation (GDPR). This affects all companies globally as long as the data of European citizens are stored and processed, no matter where the home base of the company is located. But data protection is more. It also means that such data should only be processed by authorized personnel. sEngine helps to reduce threats and vulnerabilities, secures customer, company and employee data – and cuts costs into the bargain.

I don't have a security gap – or do I?

Do you know how much sensitive data within messages, files, records or database tables is stored within your applications and/or channeled across your company-wide network? Can you really guarantee that it is secured and handled properly? Sensitive data are to be found in numerous processes and can be accessed by many people. The tiniest security gap might be sufficient for a data breach. There is an increased awareness globally to handle sensitive data much more diligently. Not taking care can result in a significant loss of reputation.

> Avoid cost of possible data breaches or non-compliance with local data privacy regulations

- Incident fees, costs of fraud, handling and compensation costs, cost of litigation, etc. (primary losses)
- Considerable loss of image and customer's trust, possible declining use of (online) services, etc. (secondary losses)

> Increase security and decrease cost for enhanced security measures

- Fast implementation – plug in one application after the other to establish a corporate solution stepwise

- Minimize potential security gaps while keeping business processes stable, fast and efficient
- Reduce the scope of applications and processes which have to be run under high security conditions
- Use your cyber security budget more efficiently

> Proven solution since 2009

- Platform- and database-independent, configurable mapping engine
- Fully automated key management and cryptography
- Secure protocol handlers such as message and file handlers, web services, SAP RfC using sFTP, PGP, HTTPS, SNC etc.



Product Line

sEngine is a security tool to protect your own and your customers' sensitive data effectively.

pEngine – the PCI Compliance Engine – helps to protect payment data according to the compulsory standard PCI DSS when your company processes, stores or transmits card holder data.

Features and functions

Place your trust in a truly simple solution:

sEngine – the Data Security Engine

Nobody knows who will be the next target of a cyber attack. Your customers trust in you to keep their data safe. But is it really safe? Each data breach alerts your customers and they start wondering more and more if their personal data is being treated reliably. How you process company data could make the difference. What is your data privacy strategy? Securing data properly sounds rather complicated and costly – but it doesn't have to be because we provide a truly simple yet effective approach.

Our approach

Depending on its nature, the sensitive data to be shielded in your systems are replaced by secure surrogate numbers, reference codes and/or secure links to encrypted objects. The information to be secured could be any kind of ID number, a text in a free text record field of your database, a Word, XLS or any other kind of document containing personnel or other sensitive data. The information is stored fully encrypted within the secured database of the sEngine. It can only be accessed by authorized personnel with a defined business need through the respective business application. Your business application can be operated as of today by your existing service provider. Your systems contain only the reference codes or links to the sEngine. Thus your applications are shielded while keeping your processes stable. As the sensitive data are taken out of your applications and highly secured at a different place, the risk of an unauthorized access is reduced to an absolute minimum.

Less cost

Other solutions are prohibitively expensive. Especially if you have to run each of your applications containing sensitive information

in a high security mode according to your company regulations or mandatory local data protection laws. A high security mode typically adds considerably to the basic operational costs of your applications and your infrastructure.

If you outsource sensitive data into sEngine you outsource the security risks as well. If sensitive data are separated – figuratively in a highly secured safe – you have secure business applications management. And your customers' and companies' sensitive data are safe and secure, even each individual application – while avoiding excessive costs.

Technology and implementation

The Data Security Engine is based on well established, high-availability technology and runs on a virtualized platform. Being flexibly scalable, sEngine is designed for large and small businesses alike, independent of your processes or IT landscape.

The engine's value unfolds when used as a corporate solution. The more applications that subscribe to sEngine, the greater your benefit. And using it as a shared and managed service gives you even more benefit.

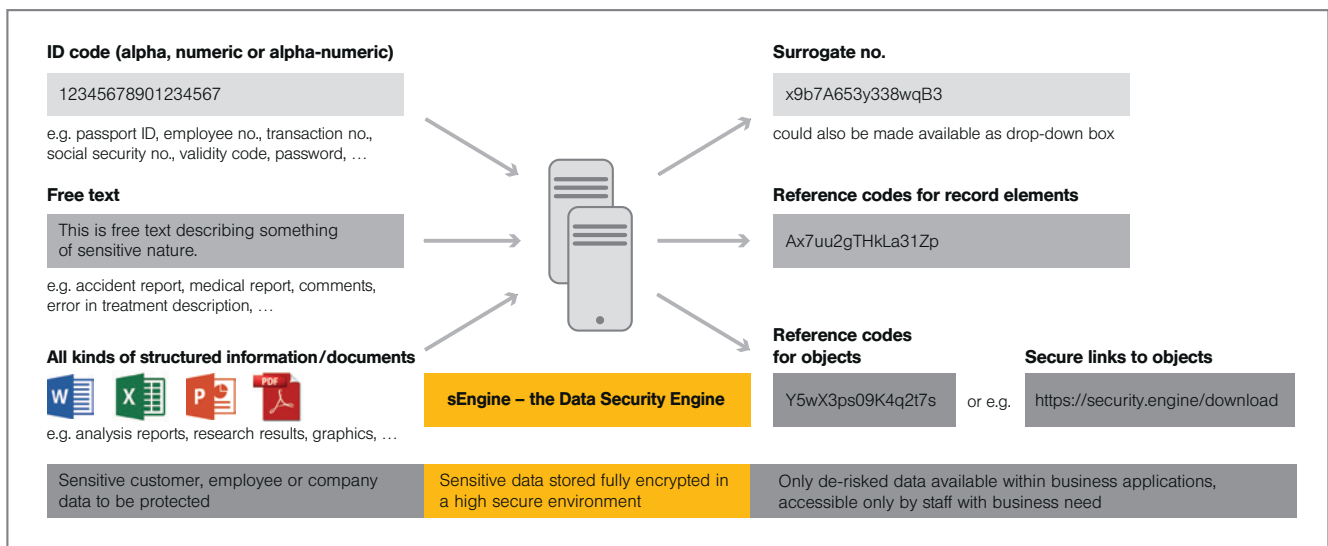
Our certification – your value

sEngine is a derivate from pEngine – the PCI Compliance Engine. pEngine is audited and certified yearly according to the high requirements of the respective data security standard. Our certificate of value is your benefit!

Contact incentive

Not yet sure how the Data Security Engine could secure your environment? Don't hesitate to contact us.

Our experts will be glad to explain how your specific requirements and our solution fit together.



Examples of how applications could be secured and sensitive data are protected by the Data Security Engine (sEngine).