



# Soflab GALL

– a new tool for data anonymization and pseudonymization as well as exercising the right to be forgotten

**Provide the confidential information in your company with protection and ensure compliance with GDPR laws.**

Increase your operational efficiency in a quick and simple way by anonymizing large data volumes with Soflab GALL.



## Thanks to Soflab GALL, you'll be able to

- **Enhance** data security by preventing confidential data leaks in non-production environments.
- **Carry out** a project in compliance with GDPR laws and requirements.
- **Enable** programmers, developers and testers to use credible data, not compromising confidential production data.
- **Minimize** the time and resources needed to secure data.
- **Guarantee** the support of business processes linked with development, testing, quality assurance, outsourcing or offshoring.
- **Take advantage of** Soflab's knowledge and experience in test data quality assurance, coming from field-proven solution.



## Why Soflab GALL?

- **Disclosing information** can carry serious consequences for the company's performance and reputation. Organizations know the value of protecting their confidential data, that's why they take proactive measures when it comes to protection, security and prevention of unauthorized leaks of confidential data.
- **Confidential data anonymization** using Soflab GALL allows for creating fully functional databases that are ready to use in non-production environments and contain credible information.
- **This solution** intuitively meets a wide range of requirements regarding data anonymization, from specific needs of a given department to comprehensive requirements determined in the scope of an entire organization. Users can anonymize the data within a single databases or multiple databases and platforms in the entire organization. At the same time, obtained data will maintain consistency in terms both technical and content-related, i.e. it will be as credible in a non-production environment as production data.

# How do we work? 5 stages of data anonymization.



## Phase 1. ANALYSIS

**The individual needs of our Clients in terms of data anonymization vary greatly according to:**

- the size of the organization,
- the complexity and sensitivity of the data,
- the number of databases, applications, environments or projects being carried out,
- the methods of executing the implementation, as well as the approach towards organizing developer and testing environments,
- the risk associated with confidential data in possession and the acceptable risk profile.

**The goal of the analytic phase is to:**

- determine the **acceptable risk** profile and **input parameters** describing the solution (based on individual needs),
- **analyze the content of the production environment** (entity mapping) from which data are to be gathered for the purposes of anonymization,
- **identify data** that must be anonymized in order to ensure sufficient protection thereof, without lowering its usability,
- determine detailed **business purposes** and **success criteria**,
- prepare a **technological concept of the solution** in conjunction with appropriate business rules.

## Phase 2. DESIGNING

The data gathered over the course of the analysis will be used to create specific criteria and rules of the anonymization, including:

- **identifying relations** between the anonymized environment and the production environments as well as the non-production ones,
- designing the definitive **architecture of the solution**,
- **designing the models** of gathering, processing and anonymizing data,
- determining the desired **policy and environment** of data anonymization.



## Phase 4. TESTING PERFORMANCE OF ANONYMIZING ENVIRONMENT

At this stage, **data processing** is carried out based on the configuration constructed in the previous phase. Depending on the adopted model of the project, responsibility for data processing either lies with our team or is transferred to the Client's team.

## Phase 3. CONFIGURATION AND DEPLOYMENT OF ENVIRONMENT

- The configuration of a data anonymization tool is created **based on Clients' particular functional requirements** that have been defined in previous phases.
- Among the elements of the configuration and deployment of the environment are **extremely thorough tests ensuring the quality and consistency** of the obtained data. Also, solution documentation is completed.

## Phase 5. ADAPTING THE ANONYMIZING ENVIRONMENT TO CHANGES IN PRODUCTION ENVIRONMENT

As an option, we offer **comprehensive supervision** of the deployed anonymized environment and adapting the configuration of the anonymization packet to changes in the organization's production environment.

# The main features of Soflab GALL



## 1 Anonymizing confidential data on demand while maintaining its consistency

Soflab GALL replaces selected real data with synthetic data with consistent and credible values. Its consistency is maintained in terms both **technical** (preserving the referential integrity of anonymized bases) and **content-related** (the integrity of data between systems of the anonymized environment, as well as mapping business rules that stem from systems, e.g. a person's national identification number with regard to their date of birth).

## 2 Enabling the implementation of multiple courses (stages) of anonymization

Soflab GALL was created in such a way to make the anonymization process:

- **repetitive** – after every repetition the anonymization process will yield different results while preserving data consistency
- **divisible into stages that are deployed independently.** A pause between particular stages can be scheduled, e.g. In order to prepare test environments for further domain-specific systems or to analyze the sensitivity of another packet of data.

## 3 Enabling the augmentation of output data volume

This solution allows for **parameterized duplication of input data** while preserving data consistency and creating new data simultaneously, through anonymization. For example, starting from one input client, it is possible to create multiple output clients among whom, by applying randomization mechanisms, each will have a different last name.

## 4 Enabling the anonymization or pseudonymization of any database or fragments thereof

The tool enables **an efficient and scalable** data anonymization. The range of data that will be used in the anonymization process is determined during the process of deployment of the solution.

## 5 Exercising the right to be forgotten in accordance with the established policy

After defining the rules of data deletion for selected domain-specific systems, Soflab GALL ensures a **continuous and fully automatic** implementation of the rules in those systems.

## 6 An open architecture

Soflab GALL can be easily adapted to the environment of an organization and the solutions in place. The solution can carry out the anonymization process using CSV files containing, for example, the listed content of spreadsheets from the system or systems intended to be anonymized. It can also use a direct connection to databases that are based on motors for which there is a **JDBC driver** or a **Python connector** available.

Choosing a supply model is an element of a data anonymization strategy.

# The advantages of Soflab GALL



Eliminating the risk of a disclosure of confidential data in non-production environments.



Exercising the right to be forgotten without the need for making changes in domain-specific systems.



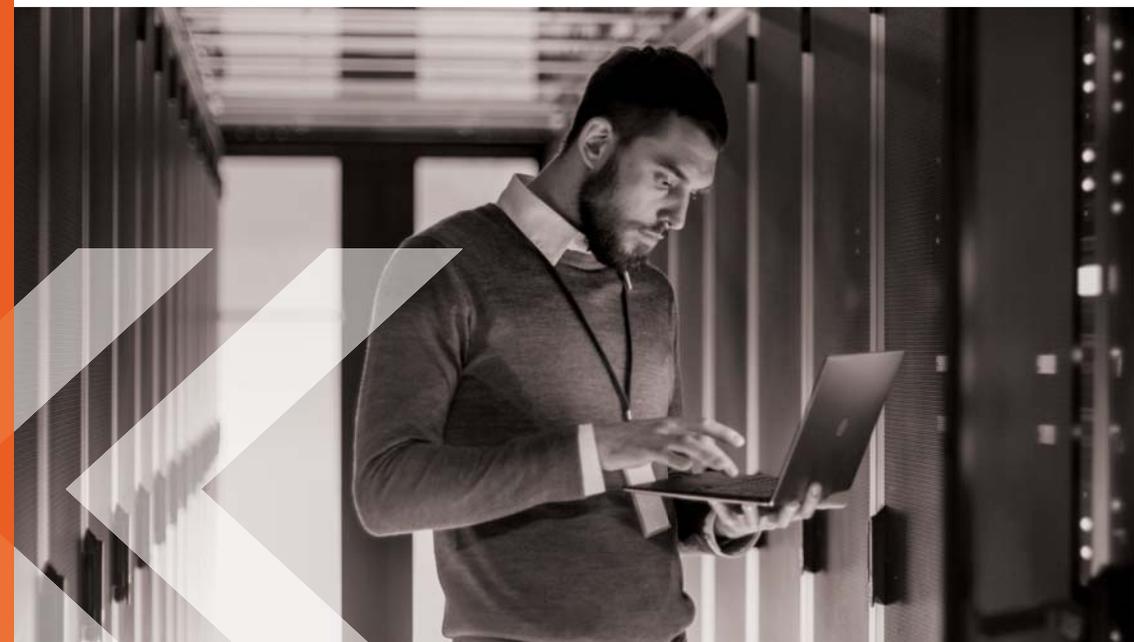
Preserving the credibility and integrity as well as analytical and statistical properties of data.



Scalability.



Simplicity of implementing and managing the packet configuration.



Ask for a special offer for you:  
**[gall@soflab.pl](mailto:gall@soflab.pl)**

