Anonymization – transformation – data cuts

GEM Winch

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GEM WINCH

We know how to deal with it!

- Does your system involve sensitive data?
- Do you work with external IS contractors?
- Do you work not only with production, but also with development, testing or training environment?
- Are you thinking about a new HW and you need to test its performance?

PRODUCTS AND IT SOLUTIONS

Why GEM Winch?

We created the Winch tool based on our experience with projects from the area of complex and extensive information system of a big organization. At the same time, we have used the advantage of Enterprise Architect, a progressive and flexible tool which covers all aspects of the developing cycle. We integrated our know-how and procedures for the solution of various practical issues from the real environment into it.

PROVIDED SERVICES

Then you have most certainly dealt with the issue of providing your developers or external contractors with **a representative set of data** from the production environment in order to develop, test or train **without breaching security standards** for sensitive data.

GEM Winch is a universal modular system for transformation, anonymization and creation of data cuts. It is installed in the SW Enterprise Architect in the form of an **Ad-In**. With the **GEM Winch**, you can easily and intuitively decide which data shall be part of the created data set, what should be their final amount, which data to anonymize and how.

Principles of anonymization

- Random creation of characters
- Use of prepared dictionaries
- Data mixing
- Addition of noise
- Micro-aggregation
- Application of rules for the correct data format (birth number, identification number, IBAN)
- Anonymization of the binary content

GEM Winch contributions

- Simple installation
- Work in a familiar environment of the Enterprise Architect
- Preservation of formal, logical and integration links
- Extensive libraries of prepared transformation functions
- Transparent statistics about the use and application of transformation
- Unified view of the application for both development/service and transformation

Anonymization in 7 steps:

1 IInstallation if the GEM Winch tool in the form of an Add-In within the Enterprise Architect.

2 Import of existing data models from the source systems into the EA.

3 Design of transformation with the help of the GEM Winch (cuts, transformation, anonymization).

4 Fast choice of anonymization type from the library of prepared algorithms.

5 Preservation of data consistence. Shared transformation dictionaries for multiple data models.

6 Generation of transformation directives which do not depend on a specific DB platform.

7 Realization of transformation directives within the DB.

What else can we do?

Multiplatform applications

- DB Oracle, DB MS SQL
- MySQL, PostgreSQL
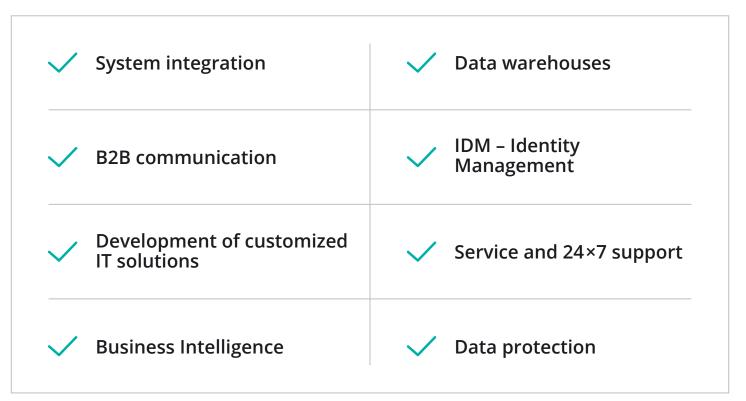- IBM Db2

So easy!

Why do we anonymize?

- **Fulfilment of legislative and regulation measures in order to protect data** (law n. 101/2000 Sb. about personal data protection)
- Provision of consistent testing data for non-production environment
- Saving of time and money in contrast to generation „artificial" testing data
- Protection against misusing the data in non-production environments

GEM Winch advantages

You can:

- work in a unified EA environment independently of the database platform of the system,
- easily transfer the created anonymization and transformation mechanisms between multiple systems independently of the DP platform,
- use the library of prepared anonymization algorithms for common data types or create your own algorithms.
- The random changes of the data model do not require any modification of anonymisation and transformation mechanisms.
- The transformation module and database module take care of the anonymization and implementing data transformation in the environment of the respective DB platform.

✓ **System integration**	✓ **Data warehouses**
✓ **B2B communication**	✓ **IDM – Identity Management**
✓ **Development of customized IT solutions**	✓ **Service and 24×7 support**
✓ **Business Intelligence**	✓ **Data protection**