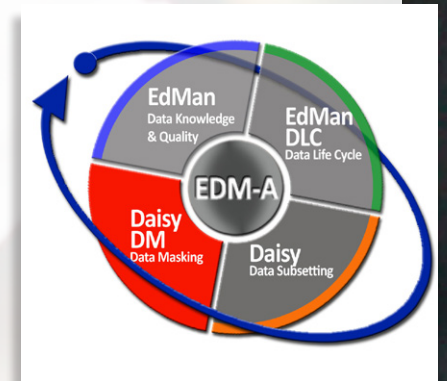




RES[®]

Data Masking **DAISY DM**

Data Masking, ensures data privacy and compliance to regulations.



The process of Data Masking (DM) often accompanies that of Subsetting. Daisy DM is able to work either independently or jointly with Daisy as a single, efficient process with very little effort

The attention required of organizations concerning the confidentiality of personal data management and security in electronic files is changing quickly. National and international laws and privacy regulations are becoming more and more stringent leading to IT organizations having to implement measures to prevent the recognition of data contents and of their reserved details from both internal and external personnel who can access files not associated with normal business needs.

Some examples are:

- copying of production data to create test data (subsetting)
- providing access to files for providers of Application Management for the purposes of standard testing or diagnostics
- outsourcing of files for statistical purposes.

Data Masking is used as a phase of data processing to make formal changes to targeted information so as to make it unrecognizable. Data Masking, as a standard, is interposed between the collection of data from the files, subject to a high level of security, and their copying to the target data store environment. The masking process must preserve the functional validity of the source files collected from along with maintaining the consistency of the intrinsic information which have been “masked”.

The Daisy DM Solution

Daisy DM is the RES multiplatform answer to address the masking of personal and/or confidential information on the organization’s files, which can be either a relational database or VSAM file structure on the z/OS platform.

Daisy DM is a component technology based on the EDM-A architecture that completes the suite from RES, which is oriented to Data & Data Quality Management. Like other EDM-A solutions, Daisy DM is functionally and

technologically independent, but is fully synergistic with Daisy, the subsetting solution with which it natively integrates.

Objectives and Features of Daisy DM

Daisy DM fully exploits the knowledge base which consists of the EDM-A Catalog. Like other solutions which make up the Res Suite, you can easily capture the information of the structure of metadata and of data stores with a sophisticated automatic discovery capability.

Introduced here are new concepts such as:

- the structure of the “composite” metadata
- lookup tables for providing masking values
- facilities available for the cataloging of user algorithms.

The administrative component provides the user with a web-based configuration by the user of the masking process against the files and the subsequent loading of the catalogs.

Daisy DM comes with a number of standard algorithms to satisfy most normal masking requirements found at most organizations, including:

- masking of name / surname / company name
- masking sex
- changes to dates
- masking of numerical codes
- masking of city, state and address (number, street, postal/zip code)
- recalculation of tax codes.

Daisy DM architecture is open however to various forms of user customization, such as:

- a dictionary of values for lookup tables
- the ability to parameterize and customize proposed algorithms
- the application of user algorithms in place of native Daisy DM algorithms.

With the exception of dates and certain information recalculated by some algorithms, the approach provides a synergistic solution for masking using randomization algorithms and specific lookup tables to safeguard the non-reversibility of the masking process.

To further underline the superior value of Daisy DM, the tool also provides the ability to apply masking algorithms to metadata instead of using individual attributes found in the files where there is the need.

The executive component, which is the Process Engine, provides two types of objectives: the generation of JOB/Script to launch the created process(es) along with scheduling networks, run time information and job processing best suited to the nature of the proposed masking project.

One item of interest is the fact that, on the z/OS and DB2 platform, for those cases with dimension related issues, a strategy of “low-level” masking-in-place can be activated that works directly on the Vsam LDS.



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