Enterprise Data Obfuscation (EDO)

wipro

Introduction

Wipro's Enterprise Data Obfuscation (EDO) is a data masking solution that creates a structurally similar but inauthentic version of the real world production data maintained by organizations. It allows the use of realistic data for testing and development while preventing the proliferation of sensitive data from production environments into non-production. The objective is to protect the actual data while having a functional substitute for occasions when the real data is not required.

Key takeaways

Obfuscated data fits the context of original data – its look alike data

Irreversible masked data; there is no backdoor to the sensitive data from the masked data

Maintains the referential integrity of the masked data

Prevent proliferation of sensitive data from production environments into non-production environments
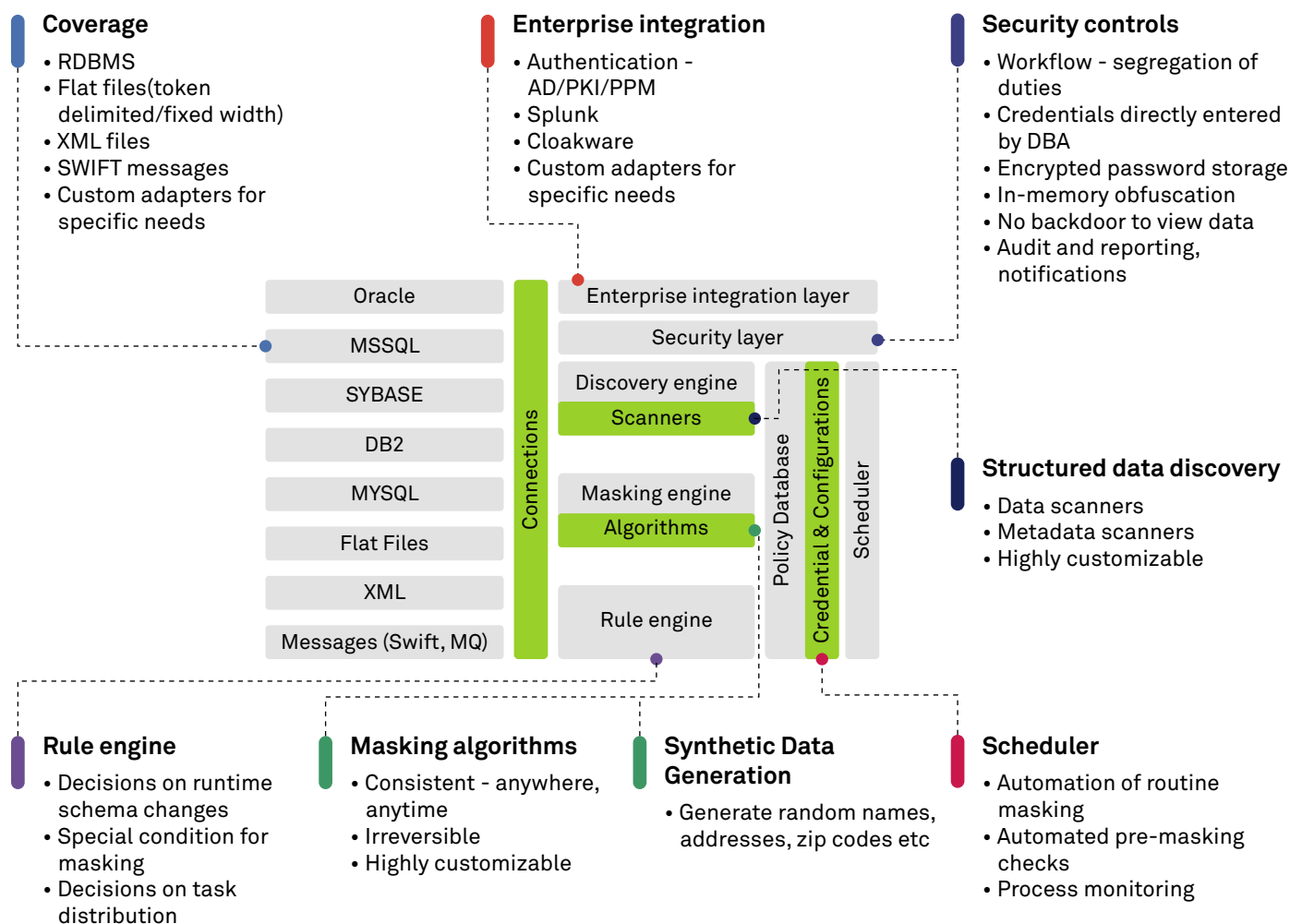
Coverage
- RDBMS
- Flat files(token delimited/fixed width)
- XML files
- SWIFT messages
- Custom adapters for specific needs

Enterprise integration
- Authentication - AD/PKI/PPM
- Splunk
- Cloakware
- Custom adapters for specific needs

Security controls
- Workflow - segregation of duties
- Credentials directly entered by DBA
- Encrypted password storage
- In-memory obfuscation
- No backdoor to view data
- Audit and reporting, notifications

Oracle	Enterprise integration layer
MSSQL	Security layer
SYBASE	Discovery engine
DB2	Scanners
MYSQL	Masking engine
Flat Files	Algorithms
XML	
Messages (Swift, MQ)	Rule engine

Connections

Policy Database

Credential & Configurations

Scheduler

Structured data discovery
- Data scanners
- Metadata scanners
- Highly customizable

Rule engine
- Decisions on runtime schema changes
- Special condition for masking
- Decisions on task distribution

Masking algorithms
- Consistent - anywhere, anytime
- Irreversible
- Highly customizable

Synthetic Data Generation
- Generate random names, addresses, zip codes etc

Scheduler
- Automation of routine masking
- Automated pre-masking checks
- Process monitoring

Figure 1: Solution overview

Key benefits

- Effectively and securely manage and protect client data against security exposures

- Minimize cost and time for compliance and improve productivity of the development team

- Ensure compliance to organizational privacy policies

- Reduce TCO and increase ROI by minimizing capital expenses and operating expenses

- Increase development efficiency by reducing administrative efforts

- Effectively simulate new business situations in the test environments

Key features

- Supports deployment in hybrid environment

- Large algorithm repository with option to customize as per need

- Follows segregation of duties for enhanced security

- No backdoor to view original data through EDO

- Schedulers to automate triggering the masking process

- Can integrate with enterprise Lightweight Directory Access Protocol system for authentication

- Scalable architecture

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