



## Gravity Metadata Management Engine (GraMME)

### Benefits

GraMME helps enterprises in attaining the following tangible benefits at a significantly lower cost:

- » **Better agility:** the ability to swiftly respond to process and technical changes
- » **Simplification:** reduce unnecessary complexity and costs
- » **Large volumes:** Support rapid increase in the volume of information
- » **Compliance:** data security regulations, Basel compliance, GDPR, Australian privacy amendment act and others
- » **Tactical goals:** project flexibility and adaptability, portfolio management
- » **Strategic goals:** data stewardship, information reuse, information management, data integration strategy

### Why does metadata need a new approach?

In today's Big Data, Cloud and Data Lake era, metadata has a new meaning. It is no longer the canned engineering artifact used to demonstrate IT architectural principles and physical data flows. In contrast, it is the enabler of data driven decisions, supporting use cases such as analyzing customer behavior, improving product usability, providing information security, addressing compliance & regulatory needs and more. To support such diverse use cases, enterprises need to capture metadata on use, constantly harvesting contextual information as data is created, ingested, processed, analyzed and served.

### GraMME

Gravity Metadata Management Engine (GraMME) is the modern, open source, vendor neutral, metadata management solution offered by Fresh Gravity. Guided by Postel's law of being conservative in defining the data protocols but liberal in what is accepted from external systems, GraMME was developed to solve the metadata challenges of today's data-driven enterprise.

# Capabilities

GraMME offers the following modules and functions:

## Metadata Repository

Developed on a graph database and composed of subgraphs, nodes and edges to represent applications, data elements, transformations or business concepts, the metadata repository is foundational to delivering scalable, flexible and rich metadata.

## Metadata Management UI

The application UI is built for viewing and analyzing metadata & data lineage, for conducting impact analysis, managing business glossaries etc. The UI is a collaborative platform for users to learn, contribute, refine, control and share informational assets. It also offers configuration, connection, user management, export, import and many more functions.

## Metadata Analytics

The ability to run analytics on enterprise metadata e.g. data quality statistics & scorecards, cyclomatic complexity, data duplication, redundant data movements. Analytics are helpful for analyzing and optimizing processes and technology.

## Metadata Discovery Tools

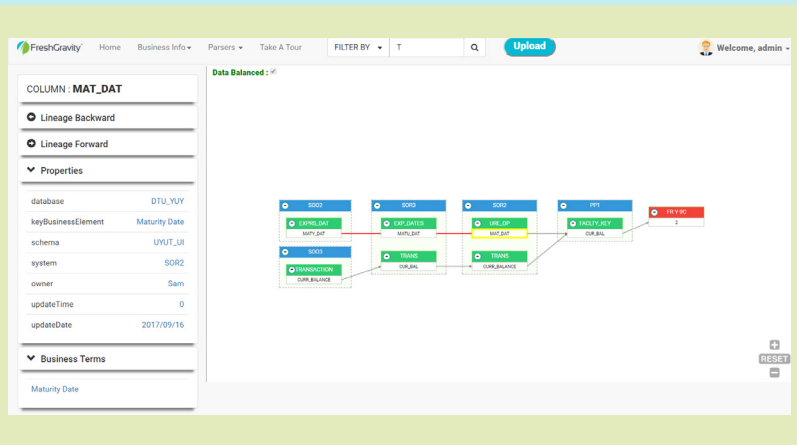
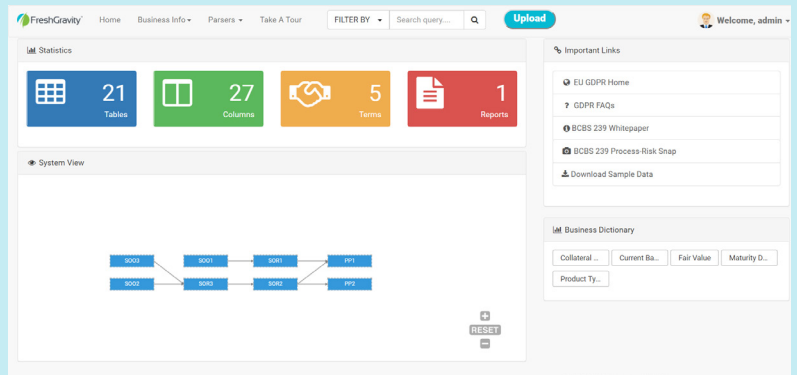
This component is made up of parsers and connectors to big data storage like Hadoop, processing environments such as MapReduce, Hive and Spark, RDBMS, DBMS catalogs, ETL & data integration software, analytical tools, data modeling applications, application systems for HR, CRM, clinical eDCs & EMRs, ERPs, flat files, SAS data sets, XMLs, hardware, network and application logs.

## Business Glossary

A repository used to govern and communicate the enterprise's business terms, along with the associated definitions and relationships between terms.

## External Integration API's and Connectors

This module offers connectors and tool kits for integrating with SSO applications, BPM systems, change management systems and other enterprise applications for integrated workflows.



## Impact Analysis

Presents information on system and process dependencies and helps analyze the technical and business impacts of a change. Impact analysis works bidirectionally and can be used to analyze impact from any point in the flow.

## Data and Business Lineage

Specifies data's origins, and where & how it moves over time. Data lineage describes the transformation of data as it goes through diverse systems and processes. Business lineage demonstrates business assets' association with other business/ data assets and processes.

## Rules Management

Automates enforcement of business rules tied to the data elements and associated metadata. The rules engine has pre-populated AI & ML algorithms for risk aggregation as in BCBS239, and for identification and protection of personal data as required by GDPR. The framework is extensible to developing custom rules for future compliance requirements.

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