

# **Data Security Governance**

-Access policy Governance Framework with Collibra



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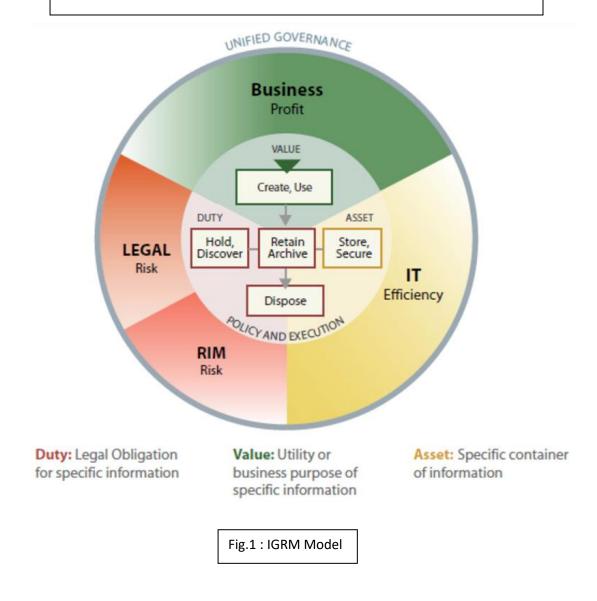


#### 1. Introduction to DSG

Data Security Governance (DSG) is an information governance framework that defines the process for data access and control throughout the data lifecycle of non-relational data sources (e.g. Hive, HDFS, etc), which effectively interacts with all the stages involved and supporting technologies that store and control data.

# Information Governance Reference Model (IGRM)

Linking duty + value to information asset = efficient, effective management

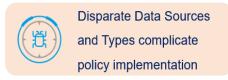


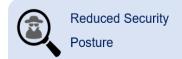
DSG implements the IGRM reference model for governing the data-access policy life-cycle



# 2. Business Challenges

Typical challenges in governing the data access policies of big-data assets









Non compliance with external regulatory bodies (HIPAA, PCI, GDPR, CCPA, etc...)



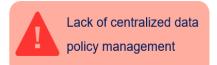




Fig.2: Business Challenges in implementing DSG

# 3. Functional Challenges

- Lack of dedicated data access policy Governance frameworks.
- Non-availability of solutions that integrate Governance products like Collibra and access control frameworks like Apache Ranger.
- Disparate data-structures and resources add to the complexity of data security and data access policies.
- Customized policy assets/structures needed for different policy sources/repositories.
- Centralized governance and policy structure to manage access controls and related meta-data is challenging compared to relational data.
- Orchestration of data requests, access grants, data protection and data provisions is a challenging task.



#### 4. Introduction to DSG Framework

DSG Framework integrates Collibra Data Governance system with Apache Ranger - which is a Data Access policy management framework for Hadoop data sources (e.g. Hive, HDFS, etc), and provides the following features

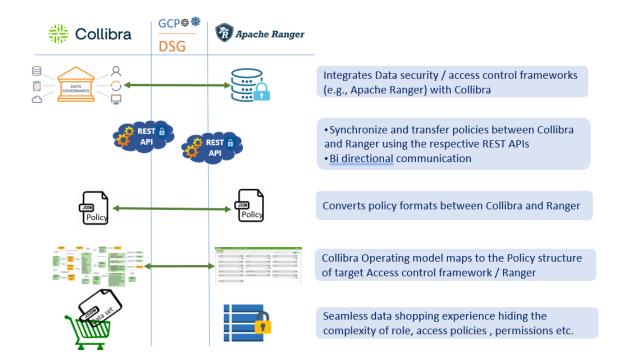


Fig.3: Synopsis of DSG Framework

## 5. Why DSG Framework



Fig.4: Benefits of DSG Framework

access policy updates with

Collibra and ranger

platform for multiple access

control tools



# 6. DSG Objectives



Fig.5: DSG Objectives

### 7. DSG: User Journey at-a-glance

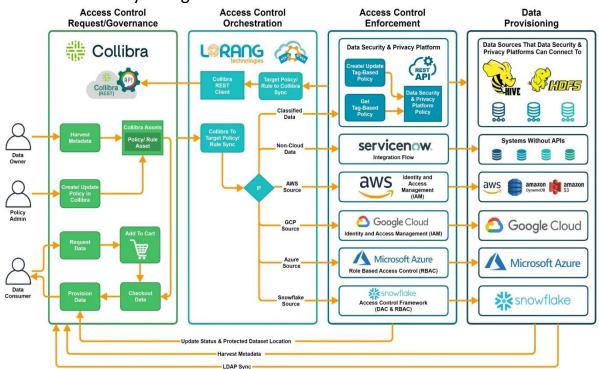


Fig.6: User Journey at a glance



# 8. DSG: User Journey by Persona

This diagram shows the personas involved in workflows for a data access request, access-policy creation and application to data sets.

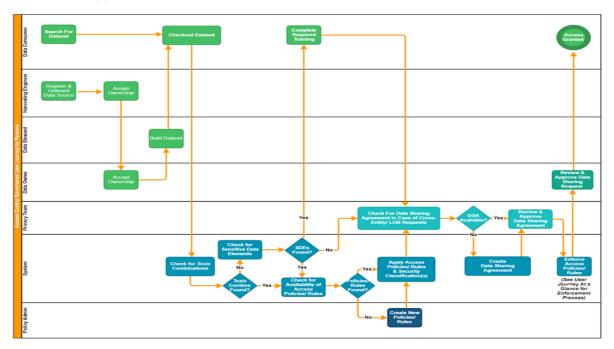


Fig.7: DSG User Journey by Persona