

# Spotify Data Governance Framework Implementation

This document outlines how Spotify should operationalize its Data Governance Framework, including the organizational model, tools, pilot plan, and execution steps.

## Organizational Model

Given the size of the company and the amount of data to manage, the recommended approach is that of the center of excellence (CoE) model. In this model, a central data governance team, lead by the CDO, defines the standards and practices for data management. It also provides training and support to the data teams embedded in each department (e.g. marketing, product, engineering). A cross-functional governance committee of data engineers, legal councils, data protection officer and business leaders oversees data management and compliance.

In the context of this organizational model, both full-code and low/no-code solutions will be used.

- **Full-code** technologies are mandatory among the CoE team. They must also be available among the embedded teams to allow for interfacing data manipulation with the CoE team.
- **Low/No-code** technologies are key to the embedded teams in the different department. They provide high data availability for a large volume of non-tech people such as business analysts.

## Technologies and tools

Table 1: Recommended technology tools to support Spotify data governance framework.

Category	Purpose	Examples
Data cataloging	Central metadata management, data discovery	Alation, Apache Atlas, Atlan, Collibra
Data quality	Automate data profiling, validation, alerts	Ataccama, Informatica Data Quality, Soda, Talend
Compliance monitoring	Manage user consent, automate DSARs	BigID, OneTrust, TrustArc, VeraSafe
Data security	Protection of sensitive user and payment data	DataGuard, Splunk, Vormetric
Lineage and integration	Track data flow across systems	Apache Atlas, Informatica

It is of course recommended to avoid redundancy by selecting a single tool for a given purpose.

## Pilot implementation

### Overview of the Pilot Implementation

#### Objective of the Pilot:

To validate the effectiveness of Spotify's new Data Governance Framework by applying it to the User Engagement Data domain. The rationale behind this choice is that user data is central to key components of the governance plan: compliance, quality and security. This dataset includes user interactions such as play history, search behavior, and playlist creation. The pilot aims to enhance data quality, ensure GDPR/CCPA compliance, and improve internal accessibility and reliability of engagement insights.

### Scope of the Pilot:

The pilot will focus on the User Engagement Data used by the Product, Marketing, and Analytics teams to assess content performance and drive personalization strategies.

### Key Goals

- **Improve Data Quality** (accuracy, completeness, consistency) in engagement records
- **Ensure Compliance** with GDPR/CCPA for user behavior data
- **Streamline Access** to clean, governed engagement data for authorized staff
- **Mitigate Risks** associated with personal data misuse or poor data quality

### Pilot Team and Roles

Team member	Role	Responsibilities
-	Pilot Project Manager	Oversees pilot execution, coordination, and reporting
-	Data Steward	Manages quality and documentation of engagement data
-	Data Protection Officer (DPO)	Conducts privacy audits and ensures GDPR/CCPA compliance
-	Data Analyst Engineer	Implements quality monitoring and access control tools
-	Product Department Lead	Aligns implementation with product strategy and insights

### Timeline and Milestones

Milestone	Target date	Responsible
Kick-off meeting	asap	Project Manager
Data Assessment and Cleansing	+1 month	Data Steward
GDPR/CCPA Compliance Audit	+1 month	DPO
Technical Setup and Integration	+2 month	IT Engineer
Mid-Project Review	+2 months	Project Manager
Final Review and Closure	+4 months	Project Manager

### Key Deliverables

- **Data Quality Report** (before/after metrics for missing/duplicate/inconsistent data)
- **Compliance Assessment** of engagement data processing practices
- **Integration Plan** for user engagement data across product and analytics teams
- **Risk Assessment Report** for data security and exposure
- **Stakeholder Feedback Summary** with insights from product managers and analysts

### Key Performance Indicators (KPIs)

- 100% GDPR/CCPA consent tracking on the dataset
- 20% faster access to engagement insights via data catalog
- 0 security incidents involving personal data during the pilot

- 90% service-level agreement compliance on data subject requests
- 10% reduction in missing or inaccurate user interaction logs
- less than 3% data quality error rate in governed domain

## Risk Management

Risk	Likelihood	Impact	Mitigation Strategy
Non-compliance with regulations	Medium	High	Weekly audits and DPO signoff
Team resistance to new processes	High	Medium	Stakeholder workshops and clear benefit framing
Metadata gaps in engagement data	Medium	High	Pre-pilot documentation sprint
Technical integration complexity	Medium	High	IT involvement in early scoping

## Training and Change Management

- **Training Sessions:** Conduct onboarding for Product and Analytics teams
- **Resources:** Share data governance guides, FAQs, and a support channel
- **Feedback Loop:** Weekly check-ins and a post-pilot survey to gather input from users

## Evaluation and Lessons Learned

- **Evaluation Metrics:** Compare pre/post KPI results and stakeholder feedback
- **Lessons Learned:** Identify areas of resistance, gaps in metadata, or unanticipated integration issues
- **Feedback Summary:** Compile suggestions to refine the framework before full rollout

## Next Steps

- **Scaling Plan:** Expand framework to cover Marketing Data and Content Metadata
- **Adjustments:** Update metadata standards and training materials based on pilot outcomes
- **Full Rollout Proposal:** Present refined strategy and timeline to the Data Governance Committee