

Central Data Observability Platform Based on Vendor Market Tool



CLIENT

Global biopharmaceutical company operating across multiple divisions.

THE CHALLENGE

The client needed to establish end-to-end data observability across pipelines and data assets while integrating multiple analytical platforms.

- Fragmented divisional monitoring with inconsistent coverage across teams
- Limited visibility into pipeline execution, schema drift, and operational metadata
- Absence of unified observability across seven analytical platforms
- Requirement for secure hybrid deployment with SSO and SCIM provisioning
- No standardized onboarding or monitoring process for project teams



SOLUTION

UD4D contributed to a structured, two-phased vendor evaluation, then delivered an enterprise observability platform integrated across the existing stack.

- Technical proof-of-concept evaluation of Astro Observe, Monte Carlo, and Acceldata ADOC
- Selection of ADOC for its hybrid architecture and multi-platform observability capabilities
- Integration with Databricks, Redshift, AWS Glue, S3, Airflow, dbt Cloud, and Trino for end-to-end monitoring
- Configuration of SSO and SCIM through Azure Entra ID, with secure connectivity via AWS PrivateLink
- Definition of onboarding processes, monitoring policies, and technical data-quality rules, with API-based export for custom dashboards and centralized monitoring

BUSINESS IMPACT

11 projects in production: Eleven projects onboarded to the new observability platform and running in production within six months, confirming rapid enterprise adoption.

7 platforms under one layer: Databricks, Redshift, AWS Glue, S3, Airflow, dbt Cloud, and Trino monitored end to end from a single workspace.

3 observability vendors evaluated: Astro Observe, Monte Carlo, and Acceldata ADOC benchmarked through technical PoCs, giving an evidence-based platform decision.

2 complementary quality layers: ADOC adds technical pipeline observability alongside the existing Collibra DQ coverage, with automated alerting for failures, delays, and anomalies across all integrated platforms.

TECHNOLOGY STACK

Acceldata ADOC | Databricks | Amazon Redshift | AWS (Glue, S3, EKS, VPC, IAM, PrivateLink) | Apache Airflow | dbt Cloud | Trino | Azure Entra ID (SSO, SCIM) | Collibra DQ