

Unifying 15+ Source Systems into One Governed Data Warehouse

CLIENT

Global biopharmaceutical company operating across multiple divisions.

THE CHALLENGE

The client needed to unify fragmented IT operational data from more than 15 systems (CMDB, Remedy, ADDM, OEM, SCCM, VCenter, CommVault, Storage Portal, TSOM) into a single governed IT Data Warehouse enabling consistent analytics, master data verification, and self-service.

- Fragmented operational data spread across 15+ source systems
- Reporting was inconsistent, manual, unstable, and lacked governance, lineage, and data quality controls
- Ingest pipelines were slow and unreliable, with dashboards duplicating logic
- Divisions using different KPIs, preventing a single consistent view

SOLUTION

UD4D led the design and delivery of the Firefly Data Warehouse platform

- Definition of a unified EDW architecture (Stage, Integrated, Access, Data Mart)
- Standardization of 20+ ingest pipelines with daily automated loads
- Design of the Integrated Layer using the Life Science Data Model and FIRST model
- Implementation of a data quality framework (Completeness, Accuracy, Integrity)
- Delivery of data marts for ESD (40+ widgets), Pulse of IT, ITMD Verification, Backup Portal, and AppFit
- Establishment of a governed access model including SEC containers for sensitive data.
- Introduction of deployment automation (UDI → DDL → ETL → Scheduler)
- Enablement of self-service exploration via Alteryx

BUSINESS IMPACT

15+ **source systems unified:** Fragmented data from more than 15 source systems (CMDB, Remedy, ADDM, SCCM, and others) was consolidated into a single governed EDW.

80% **faster deployment:** End-to-end automation (UDI, DDL, ETL, Scheduler) cut deployment time by 80%.

99.8% **pipeline stability:** Automated daily loads run at 99.8% stability, reducing manual reconciliation by more than 50% and ingest time from days or weeks to 2 to 6 hours.

3× **higher self-service adoption:** 300+ standardized KPIs and governed, consistent data cut reporting inconsistencies by 60% and enabled self-service exploration via Alteryx to triple across divisions.

TECHNOLOGY STACK

Teradata | Hadoop / Data Lake | PowerDesigner | Git | PDC / UDI | Alteryx