phData snowflake

Smaller, defensible recalls. Faster, audit-ready investigations.

When a lot fails inspection, tracing it across SAP's QM, MM, PP, and SD modules by hand can take days. phData's Batch Traceability & Deviation Agent connects SAP signals into Snowflake and uses agentic AI to trace full lot genealogy, quantify impact, and recommend the next best action - the smallest defensible recall or field-alert scope - with mandatory human approval.

Trace impact in seconds

Replace days of manual crossreferencing with a natural-language question and instant answer

Smaller recalls

Recommend the smallest defensible scope grounded in real genealogy, rather than a full-batch pull.

Govern every decision

Human approval is required for agent recommendations before any action is taken.

CLIENT BENEFITS

- Trace failed lots end-to-end in minutes, not days
- Capture every action in an immutable audit trail
- Surface similar past deviations automatically
- Quantify downstream impact of lots, states, value at risk

Built on Snowflake with governed AI, phData's Batch Traceability & Deviation Agent replaces guesswork with precision: it's designed and delivered 20-40% faster by phData Forge, our AI-native delivery system.

On Snowflake, Cortex Analyst, Cortex Search, and Cortex Agent orchestrate the investigation over curated SAP QM, MM, PP, and SD signal tables, delivering a full genealogy and a drafted recall-scope recommendation in minutes. QA and Regulatory Affairs make the final call under dual approval, with every step written to an audit-ready log.

What batch traceability delivers

- Accelerated by phData Forge agents that author the signal models and genealogy logic
- Trace ingredient-to-finished-product genealogy with lineage logic
- Preserve SAP as the zero-copy system of record via SAP BDC Connect
- Eliminate ~70% of traditional SAP integration time by removing replication pipelines

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Implementation roadmap

PHASE 1

Foundation & Genealogy

Connect SAP QM, MM, PP, and SD signals into Snowflake and build batch-genealogy logic from ingredient to finished product.

PHASE 2

Business Signals

Curate deviation, impact, and recall-scope signal tables, including value-at-risk and supplier-recurrence detection.

PHASE 3

AI & Decision Engine

Deploy Cortex Analyst, Search, and Agent orchestration alongside a dual-approval decision cockpit and audit log.

OPTIONAL

PHASE 4

Production Hardening

Activate SAP BDC Connect endpoint, provision dedicated QA/Regulatory Affairs roles, and enable a secondapprover identity for full Separation of Duties.

Why phData?

phData phData is an AI and data services leader that builds intelligent systems for enterprises ready to turn AI ambition into workingbusiness advantage. We have the deepest bench of certified Snowflake architects in the market.

Learn more at phdata.io

900+
Engineers, AI specialists, architects, and consultants

1k+
Certifications across the modern data stack

snowflake SERVICES PARTNER ELITE

7x Snowflake Partner of the Year

2026 AI Partner of the Year

Discover Batch Traceability on Snowflake

Book a 30-minute call

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