

PRODUCT DATASHEET

# AI-Powered Lineage. Human-Governed Results.

The industry's first agentic AI lineage assistant that executes work, not just answers questions. Drafts mappings, proposes connections, and enriches your model — all staged for human validation before going to production.

50%

Reduction in migration timeframe

Minutes

vs days for compliance documentation

100%

Human-in-the-loop validation

## The Challenge

### Manual lineage can't scale

Mapping complex systems takes weeks while migrations stall and regulatory deadlines slip. Documentation goes stale as soon as it's written.

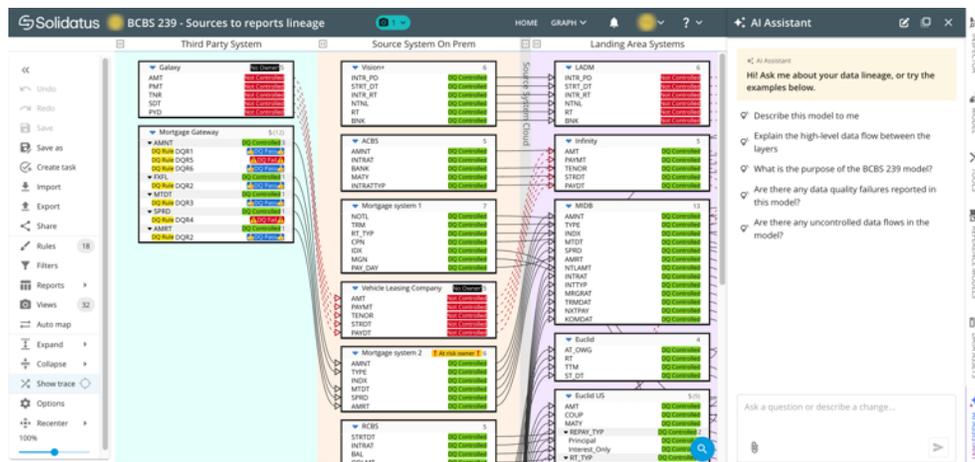
When regulators demand BCBS 239 lineage or DORA traceability, gaps lead to remediation orders and delayed programs.

## The Solution

### AI that executes, not just answers

The AI Lineage Assistant executes complex workflows — stitching lineage, mapping business terms, enriching metadata — and stages every change for human review.

You maintain complete control. The AI does the heavy lifting; you provide expertise and final approval.



Understand BCBS 239 sources to lineage with the Solidatus AI Lineage Assistant

## HOW IT WORKS

# Four pillars of intelligent automation

### 01

#### Active Model Editing

Translates natural language intent into specific model updates. Staged lineage flows and documentation with explainable reasoning for your review.

### 02

#### Deep Context Awareness

Leverages complete context from your lineage model — technical flows, business semantics, transformation logic, ownership, and regulatory tags.

### 03

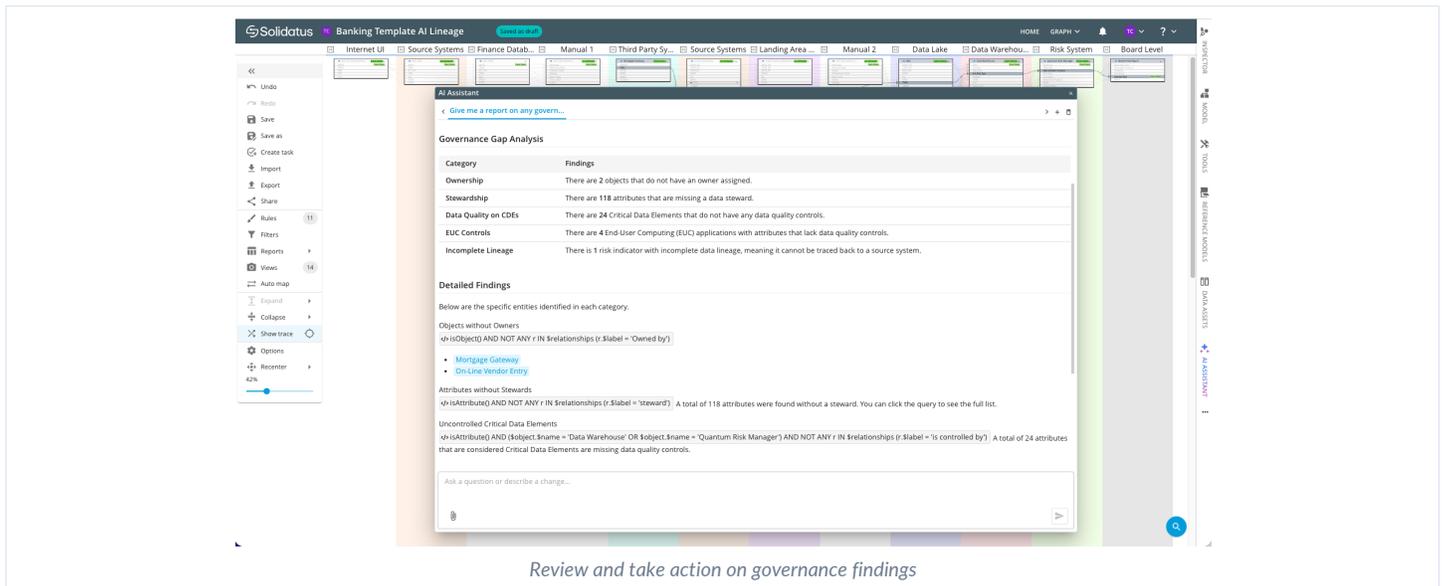
#### Enterprise Safety & Auditability

All changes staged before production. Full audit trail of what the AI proposed, what you approved, and when. Explainable reasoning throughout.

### 04

#### Unstructured Data Processing

Upload legacy PDFs, images, or spreadsheets — AI extracts structured lineage automatically and converts static docs into queryable models.



Review and take action on governance findings

## KEY CAPABILITIES

# Everything you need. Nothing you don't.

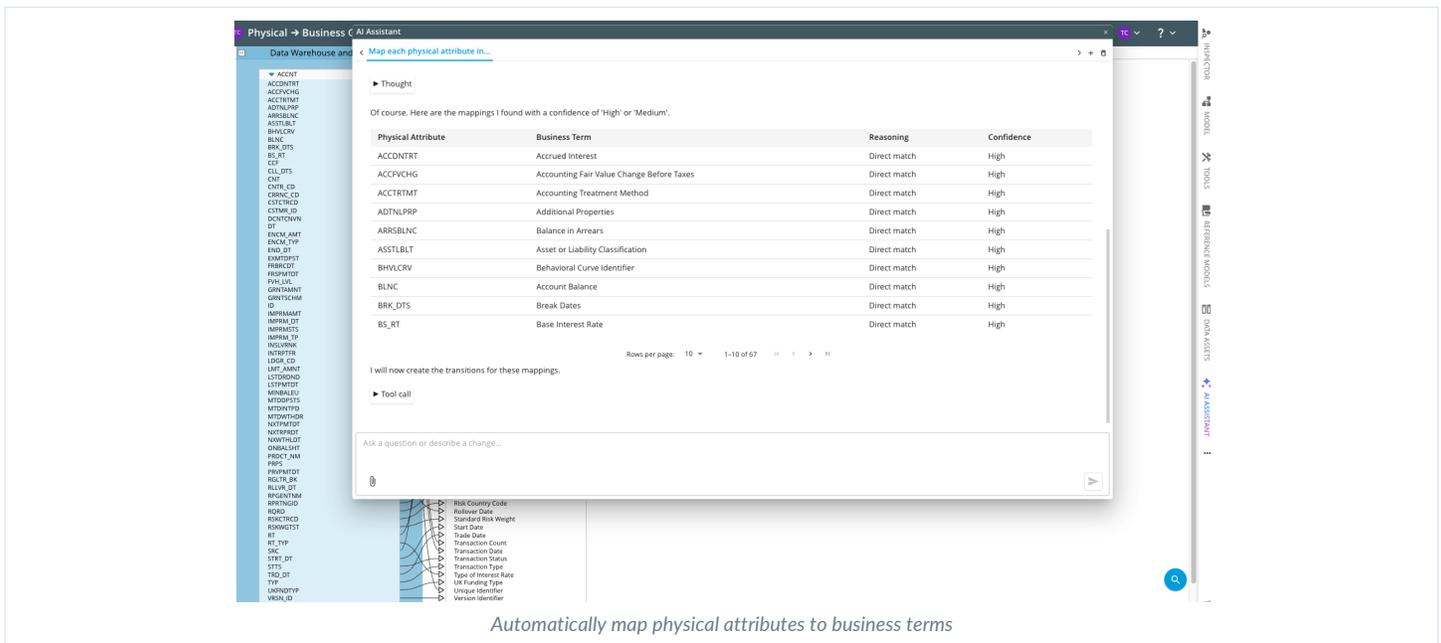
|                                     |   |   |
|-------------------------------------|---|---|
| <b>Intelligent Automation</b>       | <ul style="list-style-type: none"> <li>- Smart mapping suggestions based on metadata patterns</li> <li>- Intelligent system linking using fuzzy matching</li> </ul>                                       | <ul style="list-style-type: none"> <li>- Adaptive rule creation that learns from existing lineage</li> <li>- Gap detection, flagging where manual intervention is needed</li> </ul> |
| <b>Natural Language Prompts</b>     | <ul style="list-style-type: none"> <li>- Execute workflows: "Map these columns" or "Show PII flows"</li> <li>- Instant model interpretation for business users</li> </ul>                                 | <ul style="list-style-type: none"> <li>- Self-service impact analysis: "What breaks if we deprecate this?"</li> </ul>   |
| <b>Unstructured Data Processing</b> | <ul style="list-style-type: none"> <li>- Upload PDFs, images, or spreadsheets — AI extracts lineage automatically</li> <li>- Process data flow diagrams, technical specs, system documentation</li> </ul> | <ul style="list-style-type: none"> <li>- Convert static documentation into interactive, queryable models</li> </ul>   |

### Human-in-the-Loop Controls

- All changes staged for review before production
- Granular audit logs tracking validation approvals
- Full undo/redo with version control and rollback
- You approve, refine, or reject every AI suggestion

### Cost Control & Privacy

- Bring Your Own LLM – Azure OpenAI, Google Gemini, or AWS Bedrock
- Data sovereignty – metadata never leaves your control
- No token markup – pay direct API rates to your cloud provider



## WHY SOLIDATUS

### Not all AI assistants are created equal

Read-only AI tools answer questions. The Solidatus AI Lineage Assistant builds your lineage.

#### Read-only AI assistants

- X Searches and summarises metadata
- X Read-only catalog access
- X General-purpose LLMs, inconsistent outputs
- X Catalog context only, limited coverage
- X Vendor-locked AI infrastructure

#### Solidatus AI Lineage Assistant

- ✓ Agent drafts mappings, connections, and enrichment for validation
- ✓ Full read/write with visual verification – undo/redo and diffs
- ✓ Purpose-built with explainable and consistent responses
- ✓ Cross-system, deep context across technical and business lineage
- ✓ Bring Your Own LLM or Solidatus hosted

AI Assistant

< Give me a report on any govern... > + ☰

Answer Steps — 2 Changes — 0

> Step 1: Thinking...

▼ Step 2: Find Risk Indicators with Incomplete Lineage 📄 ⬇

▼ Thought

**Validating Entity IDs**

I've hit a snag. Apparently, the entity IDs I initially used for "Risk Indicators with Incomplete Lineage" were fabrications! So, I need to re-execute the query to obtain valid IDs directly from the model to avoid this issue.

**Re-running the Query**

I'm now re-executing the query for "Risk Indicators with Incomplete Lineage" to retrieve the authentic entity IDs directly from the model. I understand that the previous IDs were fabricated, so I'm committed to ensuring data integrity. My next step will be to update the report with these accurate IDs.

▼ Tool call

Tool call: execute\_query  
 Tool call input: {  
 "title": "Find Risk Indicators with Incomplete Lineage",  
 "query": "[Risk Indicator] = 'true' AND NOT (ANY upstream IN \$incomingTrace (upstream.\$layer.\$name = 'Source Systems' OR upstream.\$layer.\$name = 'Third Party System'))",  
 "time": 100  
 }  
 Tool call output: Query: [Risk Indicator] = 'true' AND NOT (ANY upstream IN \$incomingTrace (upstream.\$layer.\$name = 'Source Systems' OR upstream.\$layer.\$name = 'Third Party System'))

Details for 1-1 of 1 entities

Entity id: 5b35a66a-0327-4231-8b06-02e1e1e38f01  
 - Name: Currency  
 - Type: Attribute  
 - Path excluding self: Board Level/Market Risk Report  
 - Visibility: Hidden  
 - No. of properties: 4  
 - No. of sources (direct and inferred): 1  
 - No. of targets (direct and inferred): 0

*Create a report, review risk indicators, and take action on AI governance gaps*

## USE CASES

# From compliance to AI: lineage that delivers

### Accelerate Regulatory Compliance

AI analyzes risk reporting flows, identifies Critical Data Element gaps, and drafts missing lineage — producing BCBS 239 documentation in minutes instead of days.

### Scale Cloud Migration

Shift your team's focus from manual mapping to high-value verification. The AI proposes connections across your estate, reducing migration timeframe by 50%.

### Enable Self-Service Governance

Business stakeholders query directly: 'Which reports use customer credit scores?' AI traces lineage and generates answers in seconds.

### De-Risk AI/GenAI Initiatives

Automatically trace the lineage of AI training data. Generate audit-ready documentation for the EU AI Act, reducing reporting time from weeks to days.

### Reduce Effort for Ongoing Monitoring

Reduce the effort and impact of change requests or data drift monitoring with Solidatus AI, enabling you to detect and summarize changes in minutes.

## TECHNICAL SPECIFICATIONS

# Built for enterprise. Designed for control.

|                     |  |
|---------------------|--|
| <b>Architecture</b> | Agentic AI with staged change proposals. Natural language interface powered by customer-provided enterprise LLMs. Human-in-the-loop validation workflow. |
| <b>Deployment</b>   | Customer-managed AI (Bring Your Own LLM). Supports Azure OpenAI, Google Gemini, Claude, and others. Data never leaves your governance boundary.          |
| <b>Security</b>     | Full undo/redo with version control, granular audit logs, and role-based access control.   |
| <b>Integration</b>  | Seamless with Solidatus technical and business views.  |
| <b>Requirements</b> | Active Solidatus deployment, enterprise LLM service, metadata connectivity to source systems.  |