

Agentic Data Management (ADM™) Platform







The Unified, Next-Gen Platform for Data Trust and AI Readiness



AI Moves Fast. Your Data Quality Should Too.



Most data teams still operate on week long cycles. ADM automates Data Quality to keep pace with the business.

AI Demands	Data Reality
 Model builds: Daily	 16-day QA cycle
 Feature tuning: Weekly	 6-week policy approval
 Predictions: Every second	 7-week root cause fix

Acceldata’s Agentic DM injects context-aware intelligence into every layer.

✦ How It Works: Observe. Reason. Act.

From static checks to adaptive intelligence — ADM operationalizes AI-ready data.



Semantic Metadata Discovery (with Autonomous Observation)

Context-aware metadata that translates fields into business meaning—like turning “field_8924” into “risk score.”



Dynamic Policy Application (with Context Aware Reasoning)

Automated governance that adapts in real time as data context shifts, removing policy bottlenecks.



Agentic Actions (with HITL workflows)

Autonomous agents that notify, remediate, or self-heal pipes—operating with flexible oversight (human-in → on → out of the loop).

Powered by autonomous agents with semantic memory — now let’s dig into the xLake reasoning engine that drives it.

Built on xLake. Powered by Agents.

Trust Operationalized. AI at Enterprise Speed.

At its heart is **xLake—the reasoning engine**, a layer of “living intelligence” that senses, reasons, and activates agents across your data estate.

✓

Semantic Metadata Fabric understands meaning.

✓

Dynamic Policy Layer applies live governance.

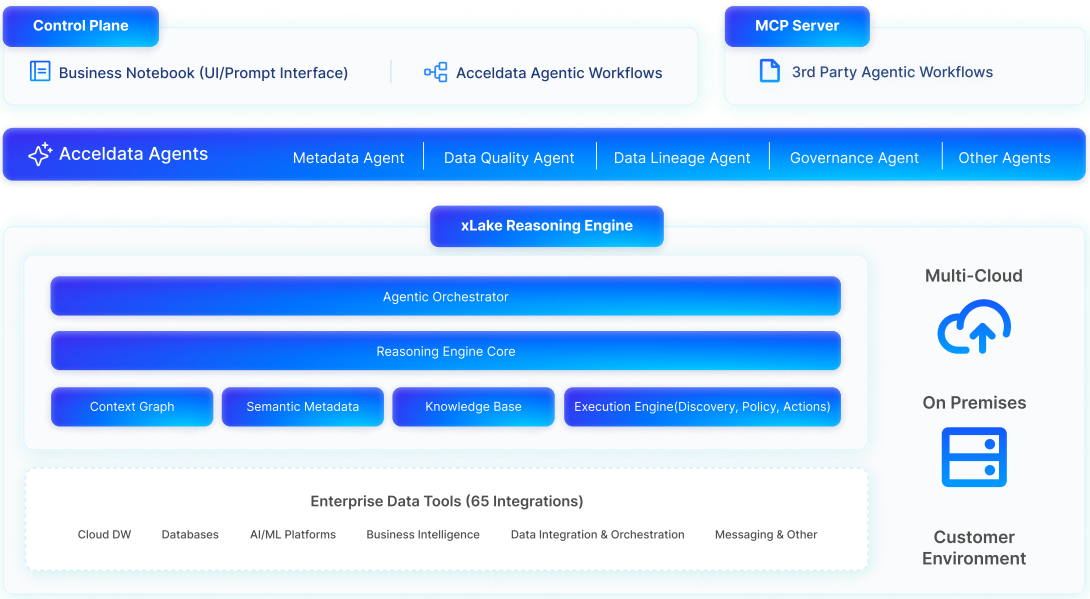
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Agentic Orchestration powers both native and third-party agents.

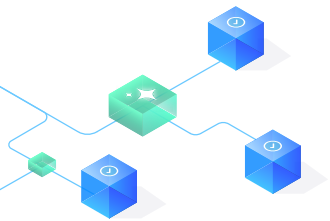
✓

Broad Context Window pulls from alerts, tickets, business docs, and catalogs.

Built to support both native and third-party agents, ADM can evolve with your tech stack and data priorities.



From memory to meaning, here’s what ADM can really do that legacy tools can’t.



What ADM Does and Legacy Tools Don't

From dashboards to decisioning — ADM replaces passive monitoring with intelligent, autonomous action.

Acceldata ADM combines four powerful components into a unified platform that delivers trusted, AI-ready data at scale:



Unified Observability Across the Data Estate

Powered by AI Agents + xLake Reasoning Engine

ADM delivers unified observability across pipelines, infrastructure, users, and cost — not as isolated dashboards, but as a connected system of agents working together to detect and explain what matters.



Context-Aware Anomaly Detection & Remediation

Driven by AI Agents

Agents continuously interpret metadata, patterns, and policies to identify anomalies across multiple dimensions — then resolve issues proactively before they reach production or impact AI outcomes.



Intelligent Policy Automation

Activated via Business Notebook + AI Agents

Through a natural-language interface, teams can define intent — and agents convert business policies into enforceable, adaptive rules. Governance shifts from static enforcement to dynamic control, embedded directly into the data lifecycle.



End-to-End Lineage & Root Cause Analysis

Orchestrated by xLake + Custom Agents from Agent Studio

ADM auto-discovers dependencies, visualizes lineage, and identifies root causes with full traceability from source to consumption. Enterprise teams can build and deploy custom agents to fit unique environments and recovery workflows.



Integrated Data Governance
& Compliance

Enabled by Autonomous
Workflows

ADM enables compliance workflows for policy enforcement, and governs consistently across clouds with data sovereignty. It validates the data behind AI models—monitoring drift, tracing lineage and impact, and certifying accuracy—so AI is explainable, lower-risk, and trusted by stakeholders.



Intelligent Cost
Optimization & Cross
Cloud Management

Guided by AI Agents + Configurable
via Agent Studio

ADM learns workload patterns, correlates performance with spend, and forecasts usage to rightsize resources and prune redundant pipelines. Cross-cloud tools unify visibility across AWS/Azure/GCP/on-prem and automate optimal data placement—turning ADM into an intelligence layer that maximizes ROI without sacrificing performance.

Together, these capabilities transform ADM from a data platform into an enterprise intelligence system — one that senses, reasons, and acts with precision across your entire data landscape.

✦ Business Outcomes for Data & AI Leaders

With ADM, every team across the data value chain wins — from engineering and ops to governance and AI.



Faster AI Deployment

Certified, trusted data feeds production models with confidence and speed.



Operational Resilience

Proactive remediation by agents reduces downtime and improves SLA adherence.



Efficiency at Scale

Smart workload tuning and predictive cost control reduce cloud waste by up to 40%.



Always-On Compliance

Governance guardrails and audit trails are embedded in every layer.



Enterprise-Wide Trust

From ingestion to insight, every decision is explainable, trackable, and safe for data and AI.




See the Change. Measure the Impact.


The difference isn't just noticeable — it's measurable. ADM transforms how you govern, optimize, and deliver data that powers AI.

Before ADM	With Acceldata ADM
⊗ Inconsistent Quality	✓ Trusted Data Certified at Source
⊗ MTTR = Weeks	✓ Self-Healing Pipelines, RCA in Minutes
⊗ Policy Enforcement Lag	✓ Automated Governance with Live Policy Reasoning
⊗ Blind Lineage	✓ Full Lineage from Source to Consumption
⊗ Runaway Costs	✓ Agent-Driven Forecasting & Circuit Breakers (30–40%)
⊗ Risky AI Deployments	✓ AI Assurance with Context-Aware Explainability


From fragile to fail-safe — ADM makes your KPIs intelligent, responsive, and trusted.



Prebuilt agents for your compliance needs.



Immutable governance with versioned policies + audit trails.



Privacy-by-design in contextual memory and actions.

This is how trusted AI happens — with continuous memory, real reasoning, and always-on control.

Ready for Trusted Data? Let's Talk.

Agentic Data Management (ADM) is an AI-powered, autonomous approach to data management that detects, understands, and resolves data challenges in real time. It is a complete rethink of Data management for the AI age, It replaces the traditional data management stack of data catalogs , quality , governance and observability tooling and replaces it with an AI powered platform which will revolutionize the space.

It goes beyond traditional observability by leveraging AI agents, contextual memory, and automated actions to ensure data is always reliable, governed, and optimized across an enterprise.

See Product Tour →

www.acceldata.io

