



Agentic Provider Data Management with ADAM

Automate, Validate, and Transform
Provider Data at Scale with Brillio's
AI-Driven Framework

Business Challenge

Healthcare organizations and payers rely on accurate, complete, and up-to-date provider directories to support claims processing, regulatory compliance, network management, and member experience. However, provider data today is often fragmented across internal and external systems and arrives in inconsistent formats - ranging from CSVs and PDFs to HL7, spreadsheets, XML, and JSON.

Manual processing further slows down onboarding, making validation time-consuming, error-prone, and difficult to scale. In addition, data drift, duplication, and poor accuracy create challenges for provider search, claims, and compliance audits. As regulatory scrutiny increases and interoperable ecosystems become the norm, linear data pipelines are no longer sufficient.

To address this, the industry requires a next-generation, autonomous system that ingests, standardizes, and validates provider data while reducing operational overhead.

Brillio's Agentic AI-Powered Provider Data Management

Brillio delivers a multi-agent system that automates the ingestion, validation, and transformation of provider data into a single source of truth. Built on Brillio's ADAM framework, this solution dynamically adapts to schema changes, improves data accuracy, and enables intelligent navigation of provider networks through graph modeling.

Autonomous Data Ingestion & Validation

- AI agents parse, map, and validate provider data across heterogeneous formats (HL7, CSV, XML, etc.)
- Brillio's ADAM engine ensures adaptability to schema drift and evolving format requirements

Entity Resolution & Quality Agents

- An Entity Resolution Agent deduplicates records and uses fuzzy matching to unify provider identities

- A Data Quality Agent detects anomalies, missing values, and schema changes to trigger remediation
- A Compliance Agent cross-validates data against third-party and regulatory registries

Graph-Based Transformation and Navigation

- Cleaned and validated data is transformed into a graph database
- Supports complex relationship modeling for advanced insights

Use Case Examples

- Automate provider onboarding by eliminating manual data entry and validation
- Consolidate disparate provider sources into a unified directory
- Ensure real-time compliance with CMS directory mandates
- Enable intelligent provider search experiences across care networks
- Enhance analytics with contextual relationships modeled through graph-based data

Benefits

- **Accelerated** onboarding timelines by automating data ingestion and validation
- **Reduced** manual effort through intelligent data quality checks and compliance automation
- **Improved** data accuracy via continuous monitoring, deduplication, and standardized formatting
- **Lower** operational costs by eliminating redundant workflows and minimizing error correction

ABOUT BRILLIO

Brillio is a digital technology services company that drives AI-first engineering and design-led experiences for global enterprises. Born digital in 2014, its consulting-led services span Customer Experience, Data & AI, Product Engineering, and Digital Infrastructure. With an industry-leading NPS of 71, Brillio accelerates time to market through its proprietary BrillioOne.ai platform, powered by AI-ready talent with deep domain expertise.

Brillio is the official Digital Transformation Partner and the official Data and AI Services Provider of Atlassian Williams Racing. Brillio partners with leading technology providers including Microsoft, AWS, Google Cloud, Salesforce, Adobe, Databricks, and Snowflake and operates with 6,000+ “Brillians” across 15 global delivery centers. Consistently recognized as a Great Place to Work® since 2021, Brillio blends innovation, talent, and purpose to deliver measurable outcomes for clients and fulfilling careers for employees.



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