ibi™ Data Quality
Enterprise Data Quality Software

With AI-assisted workflows—and a hub of reusable components for profiling, validating, and fixing data elements—ibi Data Quality software is made for business and technical users, enabling them to determine and consistently improve the quality of data wherever it enters the enterprise landscape— from online apps, data streams, message queues, and batch interfaces. This truly enterprise ready Data Quality solution lets all users take advantage of simple browser UIs or robust web APIs to improve the effectiveness of data for downstream integration, cloud data migration, business intelligence, analytics, AI/ML, MDM, and many other use cases.

Profiling & Classification

Understand your data from several perspectives: what it is and how it can be used and improved.

- **Exploratory data analysis.** Profile data to explore and understand its characteristics such as type, stats, scores, and unique, missing, and frequent values, and more.
- **Advanced profiling options.** Perform advanced analysis such as duplicate detection, correlation analysis, clustering analysis, etc.
- **Data classification.** Automatically discover and categorize data values into known data classes, adding business context and aiding in the identification of sensitive data.
- **Define Custom Data Classes.** Define rules to classify new and/or proprietary data for your business.

Rules Driven Domain Analysis

Verify your data against known rules to ascertain if that data accurately represents the real world entity.

- **Prepackaged rules and services.** Browse through the Rules

Catalog and attach your data with generic, domain, or business specific rules that automatically verify, cleanse, standardize, and enrich your data.

- **Stats, scores, and results.** Preview verification and cleansing results, evaluate data quality scores, and ingest the standardized and enriched output.

- **Create custom rules.** Create custom rules that meet your business needs and publish them into a centralized Rules Catalog for everyone to reuse.

- **Register new services.** Create workflows in any tool and register them as services so they can be associated with rules and reused by everyone in the enterprise.

Data Quality Observability

Collaborate with data experts and improve visibility of data quality initiatives by monitoring and tracking progress.

- Track and monitor data quality stats over time
- Assess the trustworthiness of your data by comparing scores against benchmarks
- Monitor KPIs and setup alerts that send notifications to stakeholders whenever metrics fall outside normal thresholds

Intuitive Web UIs

Enable your "data people" to self-serve powerful data analysis features that automatically detect and remedy data quality issues via an intuitive browser user interface.

Seamless Integration

Use REST API services to introduce Data Quality rules anywhere in your data pipeline and publish standardized and enriched data to downstream applications.

Complementary Tools and Services

ibi Data Quality software comes with "batteries included," meaning all tools and services needed to efficiently and effectively organize and implement data quality services in your enterprise architecture are turned on and ready to go:

- Authoring tool that includes a library of pre-configured components and a rich set of parsing, cleansing, and enrichment functions for technical users to author workflows as reusable web services.

- A highly scalable enterprise service bus, with fully integrated service design-time environment and web services for orchestrating flows that embed data quality functions.

- A broad category of tools to facilitate and automate extracting data from various sources, transforming data using data quality

rules, and loading clean data into target sources.

- Geocoding to verify addresses for over 240 countries.
- Email verification to reduce email bounce rates with real time email address checking.
- Phone number verification for fast and efficient communications by identifying the location of a phone number and the carrier.

Flexible and Seamless Integration

Use REST API services to quickly introduce ibi Data Quality rules anywhere in your data pipeline and propagate the power of ibi Data Quality capabilities throughout your organization. REST API services facilitate many types of interactions and use cases:

- **Master data management.** Automatically profile and classify all sources of data contributing to your MDM solution. Apply pre-built validation and cleansing rules recommended by the engine to enhance ingestion workflows, increase the effectiveness of matching algorithms, and improve the accuracy of your data.
- **Cloud data migration.** To avoid costly overruns as you upgrade to a new SaaS suite, use advanced data profiling, cleansing, and standardization to move on-premises applications to the cloud, restructure data warehouses, or add new applications.
- **BI, analytics, and AI/ML.** Consistently cleanse, standardize, deduplicate, and enrich raw data sources, providing business-ready datasets that drive all human and automated business decisions.
- **Data Quality firewall.** Improve accuracy, reduce maintenance, and govern efficiently by implementing a data quality firewall. The ibi Data Quality catalog of re-usable APIs consistently verifies, corrects, and enriches data right at the point of entry.

ibi delivers a modern data and analytics software platform that helps organizations harness the power of data to drive informed decision making. Fuel your digital transformation with data management and business intelligence capabilities to support large-scale deployments with embedded analytics and enterprise reporting built for cloud and hybrid environments and backed by deep industry expertise.