

Mainframe Speed, Cloud Agility

One-step data engineering and live virtualization for AI-ready enterprises

Business impact

Accelerated AI deployment velocity:

Wipes out the data engineering backlog by completing your profiling, cleansing, and migration inside a single, unified execution layer.

Direct TCO infrastructure savings:

Safeguard your computing budgets by routing data virtualization queries through specialty processors and isolating shared host partitions from bulk query spikes.

Compliant data trust:

Ensure your modern AI tools ingest highly accurate, fully governed data assets that inherit your established mainframe security permissions by default.

Your company's most valuable transactional records, financial ledgers, and logistics histories sit securely on mainframe hardware. However, feeding that isolated data into advanced AI models and cloud analytics platforms has historically been a massive industry hurdle, requiring multi-layered middleware and separate vendor software packages. The **ibi™ Mainframe platform version 9.3.8** completely eliminates this complexity.

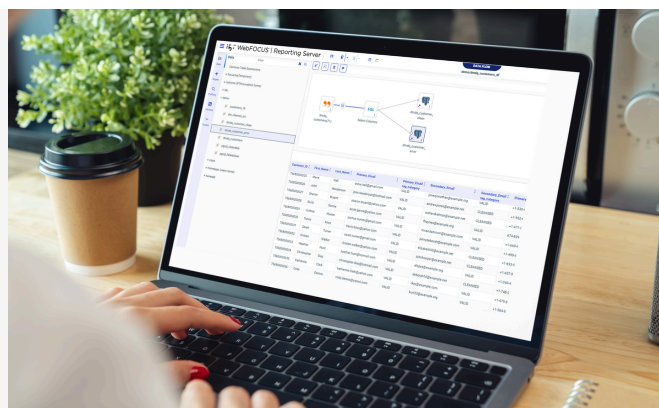
Embedding native data quality validation directly inside your data migration workflows, this release allows you to profile, clean, and pipe real-time mainframe files to cloud destinations in a single step—while simultaneously exposing live, in-place mainframe metrics directly to external AI engines and visualization tools.

Operational challenges

As data teams race to deploy predictive models and real-time AI initiatives, legacy mainframe data extraction models create severe data engineering bottlenecks. Relying on disconnected preparation and virtualization processes stalls AI velocity and drives up operational costs:

- **The AI data preparation bottleneck:** Training large language models or predictive analytics frameworks requires exceptionally clean data. Extracting raw, unverified mainframe structures forces teams into separate data profiling steps, stalling your time-to-insight.
- **Prohibitive compute consumption spikes:** Repeatedly running heavy queries directly against production transactional files from external AI models drives up computing overhead, forcing infrastructure teams to restrict access to preserve budgets.

The latest innovations in version 9.3.8 unifies real-time data cleansing with secure virtualization to fuel modern AI initiatives directly from your core mainframe files.



Core enterprise use cases

The combination of single-step preparation and open data virtualization maps perfectly to high-stakes modern data profiles:

- **Real-time AI fraud detection:** Captures real-time mainframe transaction modifications via CDC, applies inline data quality profiling, and pipes clean streams directly into external AI models to detect anomalies instantly.
- **In-place access to mainframe data for data virtualization:** Exposes live mainframe logistics data to external cloud instances via ibi Open Data Hub, giving distributed analytics teams instant data access without triggering expensive cloud migration costs.
- **Automated workspace backup security:** Leverages native scheduling updates to automate system backup routines via Change Management (CM) package exports, pushing secure data snapshots straight to AWS S3 or Microsoft SharePoint.

Operational challenges continued

- **Fragmented and exposed data quality loops:** Moving sensitive corporate records across third-party validation utilities to parse or match fields introduces severe security vulnerabilities and extends data pipeline latency.
- **Complex, custom-coded cloud routing:** Pushing updated mainframe records into modern multi-cloud data environments frequently requires managing fragile custom API code scripts, which quickly accumulates technical debt.

The integrated solution

The release of ibi Mainframe 9.3.8 overhauls the hybrid data landscape by condensing data preparation, profiling, and open data delivery into a single, unified execution step. Through a modernized, expanded REST API interface, the platform evolves the ibi Open Data Hub to bypass traditional UI dependencies, allowing data teams to directly query core server data, automate synonym management, and stream governed enterprise records straight into downstream analytics, web services, and third-party cloud platforms.

Instead of routing data through fragmented external systems, ibi Mainframe unifies data profiling and validation routines straight inside your running data delivery pipelines. The resulting assets are instantly cleaned, formatted, and perfectly structured for rapid consumption. By offering direct cloud bridges to environments like Microsoft Azure, Google BigQuery, and Microsoft Fabric alongside live data virtualization, the platform ensures modern data access without forcing expensive, high-risk code rewrites—letting external AI engines ingest live mainframe records without hitting your core production environments.

Key architectural capabilities

1. Unified single-step data engineering

- **Expanded REST API interface:** Enables direct programmatic access across the WebFOCUS Reporting Server ecosystem to directly query server data, automate synonym management, and stream governed enterprise data straight to external cloud environments and microservices.
- **Embedded inline data quality validation:** Seamlessly embeds robust data validation, field matching, and structural profiling routines directly inside native data migration ETL pipelines, cleaning mainframe data before it leaves the host system.
- **Sub-second Change Data Capture (CDC):** Intercepts database modifications inside isolated VSAM files at the log level, immediately publishing live transaction events to native Apache Kafka or other streaming channels.
- **Process flow object toggling:** Accelerates pipeline testing and debugging by allowing data engineers to instantly enable or disable individual pipeline blocks with a single click during active data execution flows.

2. AI-ready data virtualization & cloud bridges

- **Open Data Hub evolution:** Guarantees modern data access and virtualization capability across legacy infrastructure without the risk or expense of a full system rewrite.

- **Direct Cloud Bridges:** Integrates governed mainframe data directly into modern cloud environments with native support for Microsoft Azure, Google BigQuery, and Microsoft Fabric.
- **AI-accessible data:** Exposes live, pre-cleansed mainframe metrics directly to external machine learning frameworks, Python scripts, or third-party BI tools via REST APIs and secure ODBC/JDBC connectors without moving data off the host.
- **zIIP specialty engine optimization:** Engineered to automatically offload heavy query virtualization workloads directly to IBM specialty processors, bypassing general computing partitions to slash monthly software charges.

Why ibi Mainframe?

A single foundation for open modernization

The ibi Mainframe platform provides a unified, open architecture that natively connects your heritage transactional strength directly to your modern AI and cloud ambitions. While other strategies force your data teams to piece together standalone middleware, separate data quality vendors, fragile custom API code, and distinct virtualization gateways—multiplying your software license footprint and data exposure risks—ibi handles the entire data lifecycle in a single, open environment. With our expanded REST API interface and live data virtualization, you can modernize your data delivery channels without rewrite risk, eliminate developer backlogs, and stream governed mainframe data into any downstream analytics or AI initiative on your own terms.

Take the next step

Learn more about ibi™ solutions, and how we enable the world's largest enterprises to migrate to the cloud and harness the power of data to drive informed decision-making across their organizations.

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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.

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