

## Solution Brief

# Big Data Automation

## Simplified Automation for Your Big Data

### Key Benefits

- Enable greater agility in the acquisition, processing, and distribution of information.
- Reduce technology management costs by eliminating the need for extensive scripting.
- Improve compliance by encrypting passwords in login objects and avoiding sprawl of local scripts.

### Key Capabilities

- **Hadoop Automation** - Automate Hadoop jobs and HDFS actions without needing to write scripts.
- **Self-Service Automation** - Provide nontechnical users like data scientists with efficient and reliable services on-demand.
- **Managed File Transfer** - Eliminate extra tools with MFT that integrates directly within your data processing.
- **Data Warehouse Automation** - Manage the coordination of multiple discrete operations across disparate applications, databases, and systems.
- **Database Automation** - Execute SQL commands, stored procedures, and DBA functions without having to use an external command line tool.
- **Business Intelligence Automation** - Ensure the timely delivery of reports to the business.
- **Infrastructure Automation** - Simplify the efforts to create, deploy, and run big data infrastructures with automated provisioning and deprovisioning.

### At a Glance

Data is like oil; its value emerges when it is processed. Multiple tasks must be coordinated to ensure that data is in the right place at the right time, regardless of whether it is processed through databases, data warehouses, or NoSQL technologies. Trusted and efficient automation is key to delivering valuable information to business users at the right time, anywhere.

### Business Challenges

Organizations are being disrupted by the advent of big data, a unique opportunity to make faster, more informed decisions and deliver highly personalized customer experiences. The challenge is how to integrate new big data applications and processes into existing business processes without causing major disruption and impacting business-as-usual operations:

- You must efficiently capture and store big data as it emerges in any volume, velocity, or variety and then distribute it to hundreds of downstream applications—sometimes in near real time.
- You must dedicate significant expert resources to design and operate reliable data flows for the data scientists and nontechnical users.
- As part of your corporate regulations, you must ensure that the business has trustworthy, compliant, and authoritative data that is secure from inadvertent or malicious loss and corruption.

The main thrust of providing data automation must be to offer greater levels of accessibility to the right data, to as many people as possible. Data automation is required to enable the complexities of big data to be hidden from individuals, while providing them with the data accessibility and insights they want.

### Solution Overview

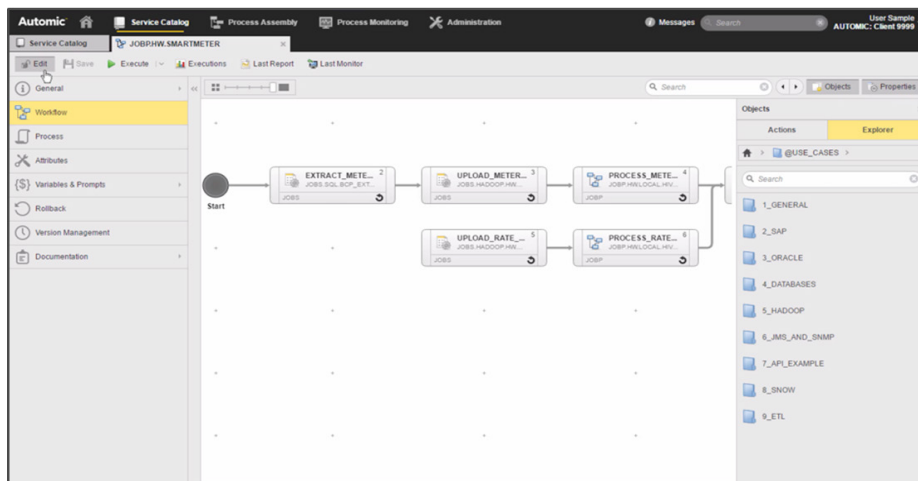
Automic® Automation simplifies and accelerates the integration of your big data initiatives with efficient Big Data Automation. Processes can be designed visually without coding and can scale to thousands of data flows. Data engineers and nontechnical users like data scientists are quickly enabled with self-service, reducing development effort, increasing agility, and enhancing compliance.

Automic puts big data analytics at your fingertips, orchestrating the end-to-end data process across traditional and cutting-edge applications and technologies. Integrated file transfer capabilities, out-of-the-box adapters for enterprise data warehousing and business intelligence applications, and integrations into big data technologies enable you to automate the data processing lifecycle—from source, processing to analytics and reporting.

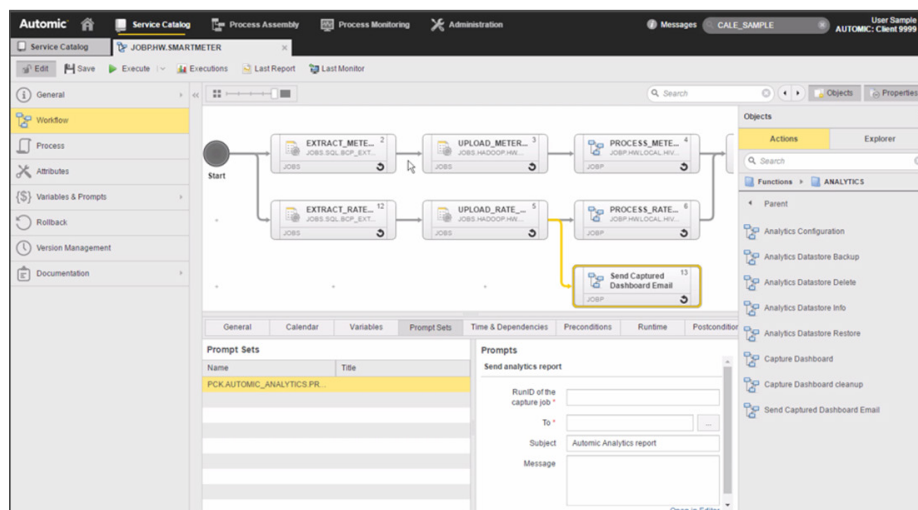
## Critical Differentiators

- **API-Driven** - An open API automation platform that integrates your applications and tools across the enterprise into a single comprehensive automation strategy.
- **Massively Scalable** - Scale up to 100K agents and 100M jobs per instance. Software clustering ensures reliability and dynamic scalability without the need for specialized fault-tolerant hardware.
- **Lifecycle Management** - Easily and securely promote automation policies across dev/test/prod environments.
- **Automation-As-Code** - Empower shift-left initiatives by enabling developers to directly code automation artifacts that can be easily promoted across dev/test/prod environments.
- **Integrations Marketplace** - Marketplace of add-ons and templates to extend the reach of automation and solve more business challenges.
- **Mainframe to Microservices** - Provide support for mainframe, distributed, virtual, and cloud environments combined with the broadest certifications for business applications.
- **Zero Downtime Upgrades** - Zero downtime upgrades guarantee that there is no need for a maintenance window and no downtime when installing new versions or patches.
- **Governance and Compliance** - Comprehensive auditing and control of all automated processing and user activity, keeping processes in conformance with company regulations.
- **Business-Driven Automation** - Enable data-driven automation to create agile operations.

Automatic Automation big data flows can be designed visually.



Automatic Automation offers a catalog of predefined objects that enable nontech users.



## Related Products

**Automatic Automation** - Drive growth of your company and accelerate your digital transformation.

For more information, please visit [ca.com/automation](https://ca.com/automation).