

Objectives

Solution

Benefits

Quick Facts

SAP Solution Brief

Data Management | SAP Data Intelligence

Turn Data Chaos into **Business Value** with Intelligent Data Management

THE BEST RUN

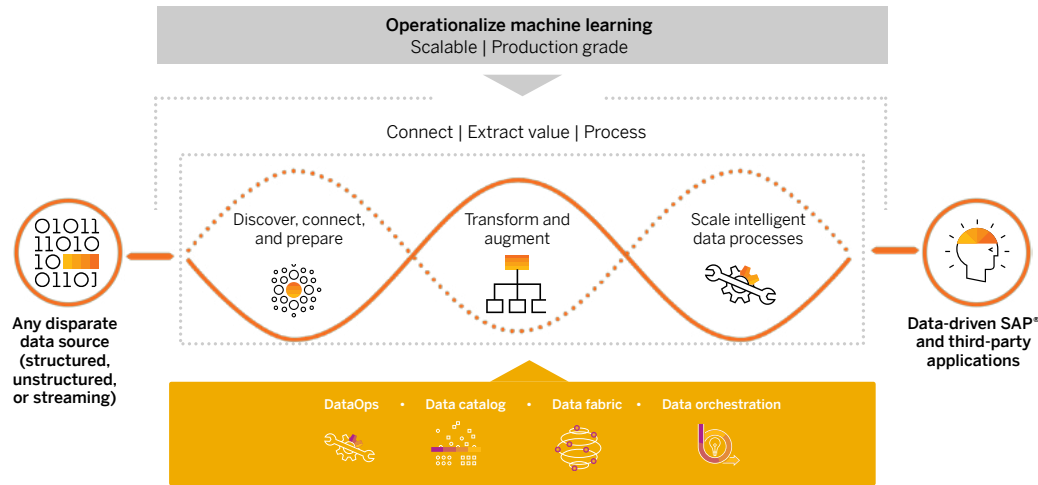


Meet Ongoing Data Integration Challenges

It's getting more complex to manage your organization's enterprise information, and your IT department has to contend with vast data volumes, multiple data sources and types, and hybrid environments. The SAP® Data Intelligence solution helps you maximize data value by connecting and gaining insights from data assets to **enable intelligent processes and support business decision-making**.

Traditional data integration has become an increasingly challenging area to master effectively due to the explosion of business data. Whether data is from structured applications, streaming, the Internet of Things (IoT), or external and social data, you must now handle vast amounts of information. Meanwhile, advanced analytics and machine learning require processing of multifaceted data types in different ways, using different processing engines, each with their own requirements. Finally, you must also manage data stored in multiple applications across complex, hybrid landscapes.

The SAP Data Intelligence solution helps you meet these challenges head-on by transforming distributed data sprawls into vital data insights. As shown in [Figure 1](#) on the next page, SAP Data Intelligence is a comprehensive data management solution that enables you to connect, discover, enrich, and orchestrate disparate data assets at enterprise scale.



Meet Ongoing Data Integration Challenges

Figure 1: Overview of SAP Data Intelligence

Support Intelligent Processes with Enterprise-Wide Data Management

With SAP Data Intelligence, you can discover and connect to any data in any location and integrate and orchestrate massive data volumes. The solution enables you to manage, integrate, and process all your enterprise data in a holistic and unified way, supporting intelligent processes.

You can create data warehouses from heterogeneous enterprise data, manage IoT data streams, and facilitate scalable machine learning. Bringing together streaming data with structured data and incorporating third-party sources, the solution enables you to discover hidden insights. Furthermore, by connecting machine learning algorithms with your data sources, you can also operationalize and scale innovation, moving beyond prototypes to production with complex data.

Support Intelligent Processes with Enterprise-Wide Data Management

Enable Data Discovery of Business Information

Achieve Effective Data Management Across Hybrid Environments



Intelligent data processing makes it easier to **find, use, process, and extract meaning** from distributed data assets.

Enable Data Discovery of Business Information

By establishing connectivity to the various data assets in your organization, you have taken the first step toward enabling self-service data access. However, you still need to make it possible for people across your organization to gain insights from the data.

As [Figure 2](#) on the next page shows, SAP Data Intelligence helps people across your organization understand business data with comprehensive metadata management capabilities. These include business rules, data lineage, a business glossary, and a rules dashboard to help ensure that everyone is on the same page.

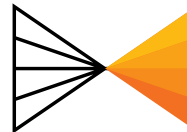
The solution also helps you automatically discover, index, and profile assets from available connections. You can create a searchable catalog of data assets allowing users to search free-form text across table names, data headers, and system-generated and user-generated tags. Furthermore, you can rate or rank data sets, include comments, and create your own tags and hierarchies, making it easier to discover data to work with.

Support Intelligent Processes with Enterprise-Wide Data Management

Enable Data Discovery of Business Information

Achieve Effective Data Management Across Hybrid Environments

Transform and augment data discovery and understanding across complex data types and curate a robust, searchable data catalog.



Create powerful **data pipelines** for **data integration** and to **orchestrate** data processing

Manage **metadata** across a diverse data landscape and create a **data catalog** and **business glossary**

Harness **machine learning** to discover hidden insights as part of your **data pipelines**

Support Intelligent Processes with Enterprise-Wide Data Management

Enable Data Discovery of Business Information

Achieve Effective Data Management Across Hybrid Environments



SAP® Data Intelligence **transforms distributed data sprawls into vital data insights**, delivering **innovation at scale**.



Access and connect data



Govern and discover data



Prepare and label data



Build scalable and flexible data pipelines



Operationalize machine learning



Monitor and scale

Figure 2: Steps That Help You Gain a Better Understanding of Business Data

Achieve Effective Data Management Across Hybrid Environments

You may have a combination of data from various on-premise data sources, as well as various cloud data sources such as cloud-based apps, databases, or storage. You may also use external data, including purchased data and data from partners, as well as streaming, social data, or weather data.

As shown in [Figure 3](#) on the next page, with SAP Data Intelligence, you can manage complex data types such as these across distributed environments from one central location. Using

a single point of access, you can manage and process data wherever it resides and automate and reuse on-premise and cloud processing engines.

Data pipelining capabilities help you access multiple processing engines, including open-source technologies such as Python, R, Go, TensorFlow, Apache Kafka, Google Cloud, and Google Pub/Sub. Furthermore, the solution offers more than 250 operators to connect and transform diverse data, and you can also create your own custom operators.

Support Intelligent Processes with Enterprise-Wide Data Management

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Automate and reuse on-premise and cloud processing engines from **a single UI**.



Data pipelining

Flexible pipelines spanning structured, unstructured, streaming, batch, (near-)real-time, and OLTP and OLAP data, across any cloud or on-premise deployment



Distributed and heterogeneous data processing

Access to processing engines, including Python, R, Go, TensorFlow, Apache Kafka, Google Cloud, and Google Pub/Sub



Intelligent data processing

Production-grade machine learning pipelines that are scalable and repeatable



Centralized metadata governance

Metadata crawling, browsing, and profiling; data lineage, auditing, and data anonymization or masking

Support Intelligent Processes with Enterprise-Wide Data Management

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Figure 3: Hybrid Data Management Capabilities Provided by SAP® Data Intelligence

Making Data **Work Harder** for Your Business

SAP Data Intelligence helps you process data at scale, conduct analysis across different data types, and manage information across hybrid environments. This means you can extract maximum value from disparate data assets. Centralized access to multiple data sources makes it easier for diverse teams – including data engineers and architects, machine learning and data developers, and core IT teams – to collaborate. Meanwhile, comprehensive data management capabilities help you innovate business processes, respond with resiliency when economic conditions change, and provide operational KPIs to the areas of your business that need them.

By enabling you to connect and enrich any type of data required for intelligent processes, SAP Data Intelligence helps you find hidden insights and provide support for informed decision-making across your organization. In making data work harder for you in this way, you can develop focused strategies in areas such as delivering more in-depth understanding of customer requirements, enhancing service experiences, or increasing profitability.

Making Data Work Harder for Your Business

Perform advanced data orchestration by combining data discovery, preparation, integration, and processing with **SAP Data Intelligence**.



Summary

Propel your business forward with trusted, data-driven processes, insights, and innovation using data orchestration and scalable machine learning. With the SAP® Data Intelligence solution, you can extract and deliver value from high-volume, distributed data assets across multiple data types and working within hybrid IT environments.

Objectives

- Connect data insights with business processes
- Counteract the development of data silos and tool sprawl that impedes speedy delivery of business insights
- Support the effective deployment of machine learning technology

Solution

- Connection to data from a single enterprise data fabric
- Transformation of data across complex data types and curation of a robust, searchable data catalog
- Orchestration of complex data flows with scalable, repeatable machine learning pipelines

Benefits

- Optimize data value and support data-driven innovation that drives key business initiatives
- Eliminate disconnects between development and implementation teams
- Operationalize machine learning and improve collaboration on DataOps initiatives
- Establish efficient and compliant data management processes

Learn more

To find out more about SAP Data Intelligence, call your SAP representative today or visit us [online](#).



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