



**SAP HANA** Software  
by SAP, Inc. | Founded 2010, Potsdam, Germany

Request Pricing

Request Demo

Categories: [Big Data Analytics Tools](#)

## What is SAP HANA?

SAP HANA is the in-memory database for SAP's Business Technology platform with strong data processing and analytics capabilities that reduce data redundancy and data footprint, while optimizing hardware and IT operational needs to support business in real time. Available on-premise, in the cloud and as a hybrid solution, it performs advanced analytics on live transactional data to display actionable information.

With an in-memory architecture and lean data model that helps businesses access data at the speed of thought, it serves as a single source of all relevant data. It integrates with a multitude of systems and databases, including geo-spatial mapping tools, to give businesses the insights to make KPI-focused decisions.

PRICE

\$ \$ \$ \$ \$

COMPANY SIZE

S M L

DEPLOYMENT



PLATFORM



Price Quote

Demo

User Sentiment ⓘ

Based on 1173 reviews:



Add your rating:



## Benefits and Insights

Why use SAP HANA?

### Key differentiators & advantages of SAP HANA

**Database Management:** Reduces operational complexity through the use of a single database that allows data to be stored without a predefined structure. Provides data structure flexibility to application developers. Joins this data with many other data types with full interoperability.

**Build Business Solutions:** The Business Function Library delivers pre-built functions that developers link at the database kernel level to build powerful business solutions.

**Geo-spatial Analysis:** Stores spatial data and enables geographical data processing to drive location-specific business application development.

**Deploy Anywhere:** Deploy on-premise, multi-cloud or go hybrid. Set up on traditional servers, pre-configured appliances, the HANA Enterprise Cloud or partner clouds including AWS and Microsoft Azure. Extend on-premise solutions to the cloud smoothly during any phase of the project.

**Predictive Analytics and Machine Learning:** Supports transactional processing through machine learning and data analysis in real time. Take action before or as events happen to improve results and boost productivity.

**Smart Data Access:** Connect virtually to remote, externally supported databases. Stores only the metadata of the database objects as a virtual table in the local database schema. Access data from the remote database in real time, irrespective of its location.

**Reduced Cost of Ownership:** Mitigates hardware costs through a reduced data footprint made possible by a compression algorithm and lean data structure.

### Industry Expertise

Enterprises across the globe use SAP HANA for its data integration, analysis and processing capabilities. It serves industries such as aerospace and defence, agribusiness, automotive, banking and finance, manufacturing, consumer products, engineering, healthcare, higher education and many more.

## Reviews

Average customer reviews & user sentiment summary for SAP HANA:



SAP HANA has a 'GREAT' User Satisfaction Rating of 86% when considering 1173 user reviews from 4 recognized software review sites.

[Leave your review](#)

### Synopsis of User Ratings and Reviews

Based on an aggregate of reviews taken from the sources above, the following pros & cons have been curated by a SelectHub Market Analyst.

## Pros

- ⊕ **Data Analysis:** Around 92% of users who reviewed data analysis said that the tool analyzes and displays insights and trend forecasts of transactional data in real time to enable timely decision-making.
- ⊕ **Data Processing:** Approximately 91% of the users who discussed data processing said that the tool can query large amounts of data due to its in-memory architecture and data compression algorithm.
- ⊕ **Data Integration:** Around 87% of the users said that the solution migrates data efficiently from a wide range of SAP and non-SAP systems.
- ⊕ **Support:** Approximately 87% of the users who discussed support said that they are responsive, and online user communities and knowledge bases assist in faster resolution of issues.
- ⊕ **Speed and Performance:** Citing the tool's fast runtime, around 76% of the users said that they can perform on-the-fly calculations at very high speeds.

## Cons

- ⊖ **Pricing:** Approximately 80% of the users who mentioned pricing said that the solution's in-memory architecture demands large amounts of RAM, which adds to the cost.
- ⊖ **Functionality:** According to around 53% of the users who reviewed functionality, the solution needs to be more flexible and agile to perform complex calculations on large datasets.

## Researcher's Summary:

SAP HANA is a multi-model database and analytics platform that combines real-time transactional data with predictive analytics and machine learning capabilities to drive business decisions quicker. Most of the users who mentioned analytics said that, with its Online Analytical Processing(OLAP) and Online Transactional Processing(OLTP)

capabilities, the tool analyzes data faster with predictive modeling and machine learning. Many users who reviewed data processing said that the tool has a lean data model due to its in-memory architecture and columnar storage capabilities, and, paired with its compression algorithm, can perform calculations on-the-fly on huge volumes of data. In reference to data integration, many users said that the platform connects seamlessly with both SAP and non-SAP systems, such as mapping tools like ArcGIS, to migrate data to a consolidated repository, though quite a few users said that integration with media files and Google APIs is tedious. Most of the users who reviewed support said that they are responsive, and online user communities and documentation help in resolving issues,

whereas some users said that the support reps had limited knowledge. A majority of the users who reviewed its speed said that the platform has a fast runtime, though some users said that it requires high-performing hardware infrastructure to do so and that memory management might be tricky with large datasets.

The software does have its limitations though. Being in-memory, the tool is RAM-intensive, which can add to the cost of ownership, though some users said that data compression reduces the database size and saves on hardware cost. A majority of the users who reviewed its functionality said that it needs to be more mature in terms of flexibility and agility, though some users said that with easy updates and maintenance, it is a robust solution and increases efficiency and productivity.

In summary, SAP HANA serves as a single source of truth for analysis of large volumes of data and uncovering consumer insights through planning, forecasting and drill-down reporting. However, it seems more suited for large organizations with complex data types and analytics workflows because of its costly pricing plans.

## Key Features

**Data Integration:** Captures any type of data – structured or unstructured – from database transactions, applications and streaming data sources. Ingests part of a data set or the complete data set into its native architecture for ready access.

**Capture and Replay:** Record complex database transactions and then replay them on another device. Test on a non-production system while using production transactions, on a hosted instance, or in the cloud.

**Graph Data Processing:** Combines its built-in graph engine with the in-memory relational database. Makes graph processing of relational tables easy to learn and use.

**SAP HANA Cockpit:** Configure and manage HANA instances and applications through a single console interface. Easily schedule all backup jobs and monitor the system for

immediate visibility of potential blockers. Integrate with other applications for workload management and security.

**Flexible Querying:** Choose from a variety of semantics structures to query data in the database memory through a flexible algorithm.

**In-memory Architecture:** Analyze insights in real time to monitor business KPIs and generate forecast trends. Access data quicker than with conventional databases via its in-memory database.

**Data Compression:** Compresses data by up to 11 times and stores it in columnar structures for high-performance read and write operations. Saves storage space and provides faster data access for search and complex calculations.

**Parallel Processing:** Performs basic calculations, such as joins, scans and aggregations in parallel, leveraging column-based data structures. Processes data quicker for distributed systems.

**Real-time Analysis:** Queries transactional data directly as it is added in real-time. Leverages its inbuilt data processing algorithm to read and write data to a column storage table at high speeds. Acquire total visibility over information while it is being analyzed and make on-the-spot, incisive decisions.

**Role-based Permissions:** Maintain data integrity across the organization – assign data access based on each team member's role.

## Limitations

Some of the product limitations include:

Integration with non-SAP tools is not smooth

The solution is buggy at times

The interface seems dated and is not developer-friendly

Hardware infrastructure is costly





Migration to the platform is tedious and time-consuming

Cost-prohibitive for small organizations

## Suite Support

Before emailing support, check out the online product documentation, knowledge base, user guides, tutorials and resources available for free on the SAP Support Portal. For individual technical support, subscribers can browse the SAP ONE Support Launchpad to find solution-specific answers, report incidents, request support from an expert and more. Interact with experts and peers through the active SAP online community forums.

For an additional fee, the vendor can provide more proactive support through its Enterprise Support and Preferred Success plans.

-  **Email:** Email [service@sap.com](mailto:service@sap.com) for non-technical assistance through the Customer Interaction Center. For technical queries, chat with an expert in real-time within the support portal.
-  **Phone:** To reach the Customer Interaction Center, call 1-800-677-7271. For technical support, schedule a 30-minute call with an expert or manager through the SAP ONE Support Launchpad.
-  **Training:** The vendor offers many instructor-led and self-paced online paid training courses for the platform. Access on-demand e-learning through the subscription-based SAP Learning Hub. Contact the vendor for training and implementation consulting services as well as customized training plan options.
-  **Tickets:** Submit tickets online through the SAP One Support Launchpad.

## Compare Big Data Analytics Tools

These are the products most often compared to SAP HANA.

Compare

[Oracle Analytics Cloud](#)

[IBM Watson Analytics](#)

BIRT

Qlik Sense

Alteryx

MicroStrategy

SAS Viya

Tableau Big Data

Applicant Tracking Systems

Big Data Analytics

Business Analytics (BA)

Business Intelligence (BI)

Business Phone

Call Center

Compensation Management

Construction Bidding

Construction ERP

Construction Estimating

Construction Management

Construction Scheduling

CPQ

CMMS

CMS

CRM

Customer Experience

Dental



Distribution  
Dispatch  
Ecommerce  
EDI  
EHR  
EMR  
Employee Scheduling  
Embedded Analytics  
Enterprise Accounting  
EAM  
Endpoint Security  
Enterprise Reporting  
ERP  
ETL  
Facility Management  
Fundraising  
Field Service Management (FSM)  
Fleet Management  
HR Management  
Help Desk  
Home Health  
Hotel Management  
Inventory Management  
Insurance  
Legal  
Live Chat  
LMS  
Long Term Care  
Manufacturing  
Marketing Automation  
Medical Billing  
Medical  
Mental Health  
Medical Practice Management  
MES

Patient Scheduling  
Performance Management  
POS  
Procurement Software  
PLM  
Property Management  
Project Management  
PPM  
PSA  
Recruitment & Staffing  
Risk Management  
Sales Force Automation  
Supply Chain Management  
Takeoff  
Talent Management  
Telemedicine  
TMS  
Time and Attendance  
Warehouse Management  
Workforce Management

[Show All Categories](#)

---

Why SelectHub  
Create a Project  
Browse Products  
Dashboard  
Managed Selection Services  
Claim Your Product Listing  
For Vendors  
Thought Leader Program  
Awards Program  
Careers  
About Us  
Privacy Policy



© 2022, SelectHub. All rights reserved. Various trademarks held by their respective owners.

All original content is copyrighted by SelectHub and any copying or reproduction (without references to SelectHub) is strictly prohibited.