

# EXASOL – The most powerful engine for your BI, analytics and reporting needs

Turn data into valuable insights and take your data analytics to whole new level

## Key characteristics

- Built from the ground-up to be the world's fastest database for analytics with no limits on data volumes
- Designed to help organizations analyze vast volumes of data quickly in order to turn data into value
- Perfect as a data warehouse, an analytic datamart or analytic layer to accelerate BI and reporting
- Helps companies to build new services and bring innovation into their business
- Available either as a software-only solution on commodity hardware, as an appliance or in the cloud

## In-memory analytic database

EXASOL is a high-performance, in-memory, MPP database specifically designed for analytics. From business-critical data applications to advanced analytics, EXASOL helps you analyze large volumes of data in real-time, helping you to accelerate your BI and reporting, and to turn data into value.

With EXASOL, you can benefit from real-time analytics in order to improve operational efficiencies, drive business growth, improve customer acquisition rates and deliver excellent customer service.

The more complex and sophisticated the data analysis, the greater the advantage with EXASOL. This is proven by our continued leadership in the independently audited TPC-H benchmarks, the industry reference for analytic database systems.

Working together with Dell, EXASOL remains in the top position for all data volumes – from 100 GB right up to 100 TB – setting the industry-standard for in-memory analytics processing performance.

## Performance, scalability, flexibility

For more than a decade, EXASOL has focused exclusively on delivering ultra-fast, massively scalable, analytic performance. EXASOL combines in-memory, columnar storage and massively parallel processing technologies to provide unrivalled performance, flexibility, and scalability.

EXASOL is tuning-free and therefore the ideal solution for reducing total cost of ownership while enabling you to concentrate on your business and swiftly solve analytical tasks instead of having to cope with technical limits and constraints.

EXASOL can be easily integrated into every IT infrastructure. It is SQL-compliant, is compatible with leading ETL and BI products such as Tableau Software, MicroStrategy and SAP BusinessObjects, and provides the most flexible Hadoop connector on the market.

As a data warehouse and analytics engine, either standalone or integrated with Hadoop, EXASOL is used in a wide range of Big Data use cases, including accelerating standard reporting, running multi-user ad-hoc analytics, and performing complex modelling using predictive in-database analytics.

## EXASOL - key features and benefits:

- **In-memory technology**

Innovative in-memory algorithms enable large amounts of data to be processed in main memory for dramatically faster access times.

- **Column-based storage and compression**

Columnar storage and compression reduces the number of I/O operations and amount of data needed for processing in main memory and accelerates performance.

- **Massively Parallel Processing**

EXASOL was developed as a parallel system based on a shared nothing architecture. Queries are distributed across all nodes in a cluster using optimized, parallel algorithms that process data locally in each node's main memory.

- **High user concurrency**

Thousands of users can simultaneously access and analyze large amounts of data without compromising query performance.

- **Tuning-free database**

Intelligent algorithms continuously monitor usage and perform self-tuning, optimizing system performance and minimizing administrative work.

- **Big Data**

MapReduce processing capabilities and Hadoop integration services enable you to perform high-speed analytics against structured and unstructured data to get new insights from Big Data faster and easier.

- **Industry-standard interfaces**

Easily connect to your existing SQL-based BI and data integration tools via for ODBC, JDBC, MDX, and ADO.net.

- **Advanced Analytics**

User Defined Functions (UDF) allow in-database advanced analytics to be easily run using R, Python, Lua and Java

- **Scalability**

Linear scalability lets you to extend your system and increase performance by adding additional nodes.

