

## EXASolution 3.0

### Background

EXASOL, the provider of EXASolution, is a German company that was founded as a spin-off from a parallel computing project at Jena University. EXASolution itself is a massively parallel database management system especially developed for data warehousing applications, which is available either as a software only solution or as a pre-configured appliance running on commodity hardware such as Fujitsu Siemens, HP, Supermicro or Hitachi servers. The product is column-based and makes extensive use of in-memory processing. Join indexes are automatically generated at run-time, as required. EXASolution uses its own version of Linux which provides extended capabilities (particularly for high availability) to support its clustered architecture. The company has successfully tested warehouses with up to 5Tb of memory, which should equate to as much as 50Tb of raw data, depending on usage.

### Focus

EXASOL is at this stage primarily focused on the German, Austrian Swiss and Japanese markets. The company offers its product across all industries and also to specific vertical markets, possibly in conjunction with application partners.

### Services

EXASOL uses a direct route to market, providing its own services and support. The company has partnerships with a number of technology vendors (including business intelligence and ETL suppliers as well as hardware) and, in particular, it has a partnership with Hitachi Systems and Services, which is acting as a reseller for EXASOL in Japan (where EXASOL maintains an office).

### Customers

EXASOL has five European customers. Case studies have been published on three of these:

- Webtrekk is a provider of web analytics that uses EXASolution to support its real-time service offering.
- IMS Health is an international provider of information and services to the pharmaceutical and healthcare sector, which uses EXASolution to power its analytics.
- Quelle is Germany's largest mail order company and it initially implemented EXASolution to support its marketing function and this has now been extended to support purchasing and sales analytics.

### Latest version

Version 3.0 introduced a number of significant new features:

- Extended system monitoring and a new intelligent resource management capability have significantly enhanced the product's mixed query workload management.

### Company Details

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- There is a new ETL interface and a reworked SQL client with many new features and improved usability.
- Transaction throughput has been improved to enable improved real-time throughput.

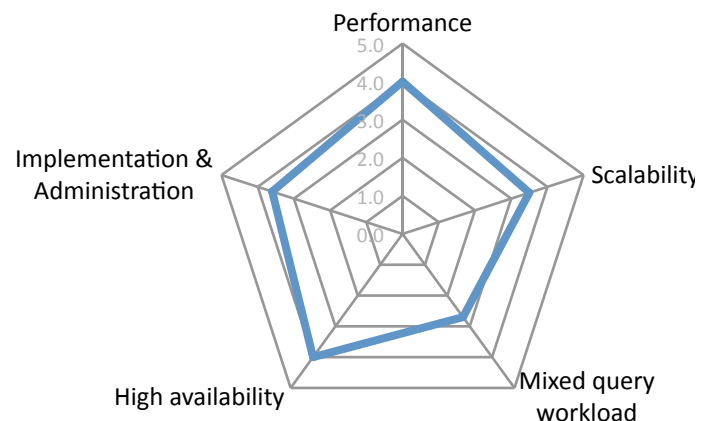


Figure 1: Analytic Warehouse Requirements (scale 0 to 5)

### Analytic warehouse optional features

Encryption	Not available
Non-standard data	Standard data only

### Summary

EXASolution is the highest performing data warehousing system available in the market, as measured by the TPC-H benchmark at 100Gb, 300Gb and 3Tb. It also offers the best price/performance at both 1Tb and 3Tb. Moreover, it has been in this position for some 18 months and these figures were based on earlier versions of the product rather than the latest one, which one would expect to provide even better performance. While such figures are generalised they do indicate the strengths of EXASolution: high performance at low cost, together with all the benefits that come from ease of implementation and reduced on-going administration.

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