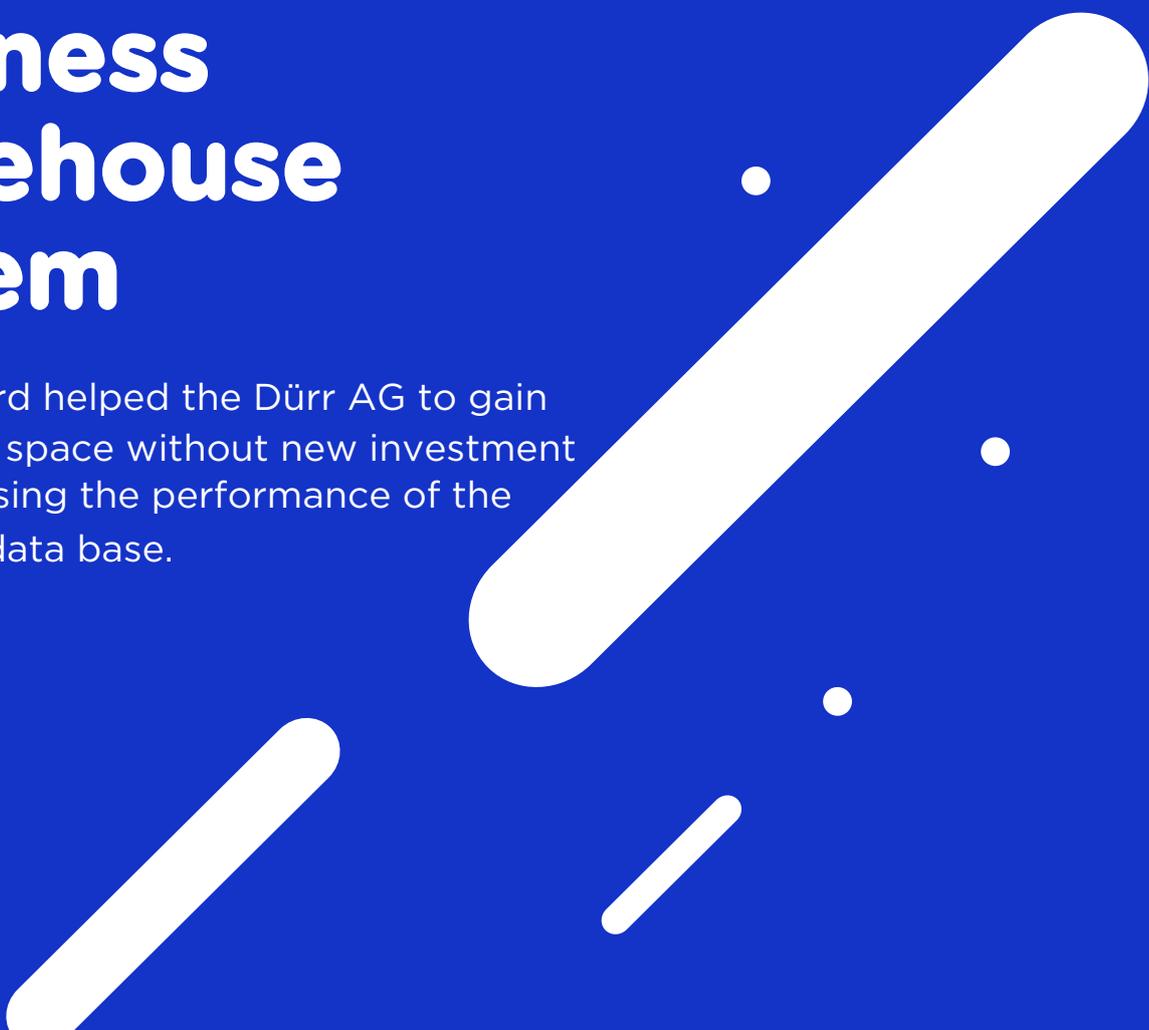


Success Story

Finally, some breathing room in DÜRR AG's SAP Business Warehouse system

How Datavard helped the Dürr AG to gain new storage space without new investment while optimising the performance of the SAP HANA data base.



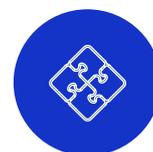
Successfully cleaned up: Finally, some breathing room in DÜRR AG's SAP Business Warehouse system

For Business Intelligence and Data Warehouse Manager at the DÜRR Group, Heiko Hafenmaier, the decision was clear. The capacity of the SAP Business Warehouse (BW) system of the assembly and automation specialist was slowly reaching its one terabyte limit. This repeatedly led to performance bottlenecks. An expensive memory expansion for the SAP HANA 7.5 database used by the SAP BW system seemed like the only solution.



CHALLENGES

- SAP HANA's capacity limits were almost reached
- High utilization leads to loss of performance
- Memory expansion essential



SOLUTION

- Detailed system analysis with Datavard FitnessTest
- Disclosure of the cleansing potential in the SAP BW system
- Deletion of unused technical data, compression of larger information Cubes and archiving of request data.

Project phase 2019	May 2019	...	June 2019	July 2019	Aug. 2019
01. Inquiry	●				
02. Installation			■		
03. Data collection			■		
04. Analysis				■	
05. Presentation of results					●

● first inquiry ● Storage provisioning

More storage space without an archiving strategy

The Problem

If a system does not have enough capacity for queries, data must be swapped out to the hard disk so that sufficient computing power is available for in-memory processing. This leads to a slowdown in operation and delays in loading and reporting. Not a desirable scenario for a business-critical and globally used system that has to provide key figures, on time for quarterly and annual financial statements and other processes.

Archiving unrequired data as a measure for data reduction would have been an option. However, at the time, no archiving strategy had been defined for the group.

Another solution was found

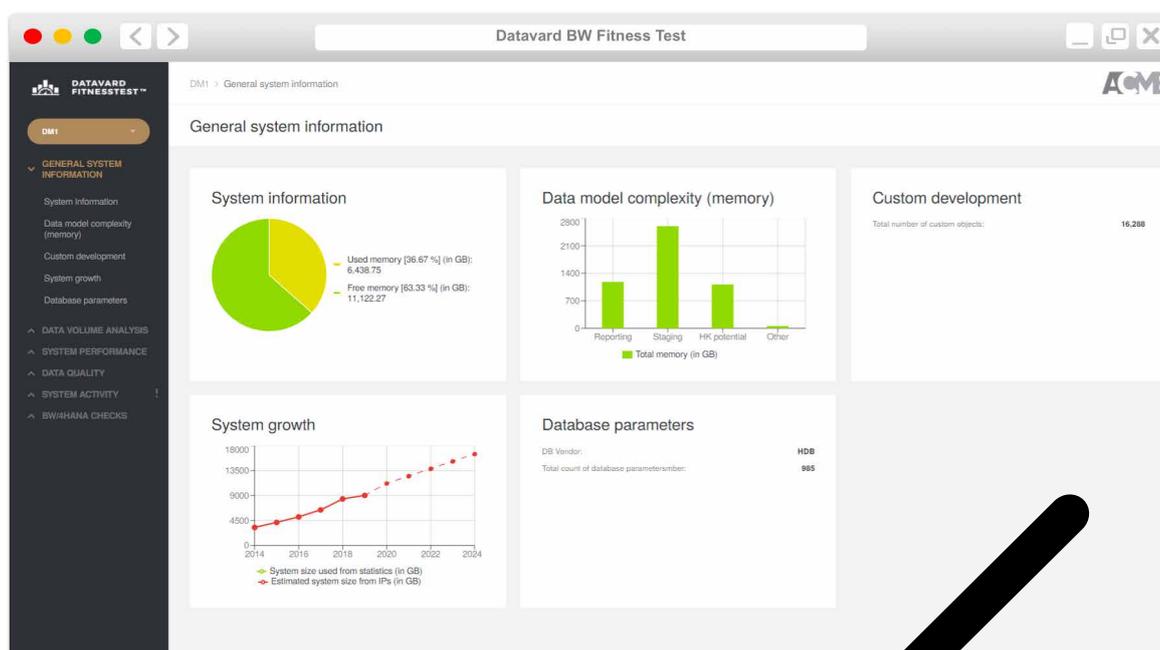
When the contract documents for the storage expansion were about to be signed, another option arose.

An IT colleague from the subsidiary HOMAG Group brought the name Datavard into play. He knew Datavard as a specialist for SAP data management from an earlier project and had positive dealings with the company.

After a telephone call with Datavard, they quickly agreed on the path they wanted to take. Within the framework of a short project, Datavard was to analyze the data cleansing and house-keeping potential available in the DÜRR Group's BW system and propose concrete measures for

improvement. These were then to be implemented directly by the DÜRR colleagues to ease the strain on the storage capacity.

The tool used for the memory analysis was the Datavard Fitness Test™. This is Datavard's own software, which can reveal clean-up potential on BW and ERP systems and clearly shows which data can be either archived or deleted. Datavard Fitness Test also serves as a benchmarking tool, as it shows how the company compares to other SAP user companies in terms of storage utilization and optimization potential.



6-week project reveals housekeeping potential

The project started with a joint kick-off in Bietigheim-Bissingen, Germany, where DÜRR's BI specialists and a small team of Datavard experts, including project management, were present. This was followed by a short system inventory and the course of the project was presented.

In the first step, Datavard provided the DÜRR colleagues with a series of SAP transports that had to be imported into the productive system. The transports contained the actual analysis logic of the Datavard Fitness Test for monitoring memory usage.

The second step involved the execution of the actual Fitness Test. In this phase, which lasted six weeks, the Datavard programs analyzed and observed the active operation in terms of memory usage and derived concrete housekeeping recommendations.

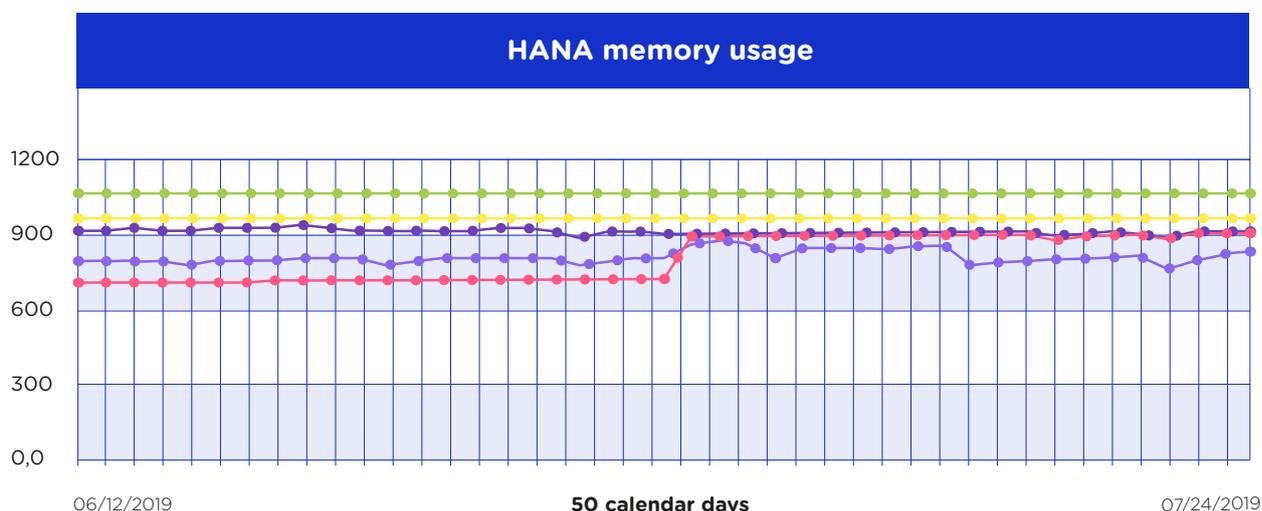
The Fitness Test is extremely resource-saving and can, therefore, be run effortlessly on production systems without any problems.

In the third and final step, the Datavard team evaluated the results of the Fitness Test and presented them to their DÜRR colleagues in another on-site meeting. They eagerly awaited the statement on the savings potential. Would it be possible to save 50 GB, 100, or even 200 GB of precious SAP HANA storage space?

“Thanks to Datavard’s support, we have been able to gain 3-4 years memory capacity and have been spared the purchase of an additional HANA box. So, the project has paid off for us many times over.”

Heiko Hafenmaier
Manager BI and Data
Warehouse at DÜRR

● Physical memory (in GB) ● Allocation limit (in GB) ● Resident memory (in GB)
● Used memory (in GB) ● Tables estimated memory (in GB)



A result that amazed everyone

Alone the amount of data that could be deleted without hesitation amounted to a whopping 300 GB, or almost a third of the entire SAP HANA database. One reason for this large number is the fact that in BW systems, in addition to business data, a large amount of technical data is generated, which often no longer needs to be kept and can therefore usually be deleted.

In addition to the data to be cleaned up directly, the Datavard team was able to identify other measures for database housekeeping and optimizing system performance, such as compressing larger InfoCubes or archiving request data. DÜRR's BI team can now carry out these measures regularly to ensure a cost-efficient and reliable operation over the long term.

For Mr. Hafenmaier the cooperation with Datavard was a significant success:

“Thanks to Datavard's support, we have been able to gain 3-4 years memory capacity and have been spared the purchase of an additional HANA box. So, the project has paid off for us many times over.”

The Datavard team is naturally delighted with the positive customer feedback and sees its role confirmed as a leading specialist for data management in SAP systems.

	in GB	in %
Hana-Storage	918	100
Current HANA-memory usage	833	90
Goal HANA memory usage (after Housekeeping)	505	55

“We were very happy with the cooperation with Datavard. The project was well organized and we really liked the unobtrusive manner of the consultant.”

Heiko Hafenmaier
Manager BI and Data
Warehouse at DÜRR

About the DÜRR Group

The DÜRR Group is one of the world's leading companies in the field of mechanical and systems engineering. Known for its assembly lines in the automotive industry, the company serves a variety of other industries with innovative technology. Mechanical engineering and industrial companies from all sectors rely on DÜRR systems for production control and noise protection. Chemical and pharmaceutical industries are no longer imaginable without DÜRR exhaust air purification systems. Under the Schenck brand, DÜRR also develops and sells balancing systems for individual and series producers, and the subsidiary HOMAG Group serves the woodworking industry with machines and systems for process automation.