



## The challenge

ISE Information Systems Engineering GmbH is the first system house in Germany that has specialized in the Oracle Exastack Family (Exadata, Exalogic, Exalytics). At the end of 2010, the award-winning Oracle Platinum Partner opened its first test center following the purchase of an Exadata Database Machine. However, this test center soon reached its limits, since not only the database server, but also the application and analysis systems should be tested in a complete operating environment. The overall solution marketed as Oracle Exastack Family was consolidated in the ISE Oracle Technology Center and places stringent demands on its accommodation.

## The solution

When the first construction phase of the NBG 6 data center was opened by noris network late in 2011, ISE was the first user to move into the most modern data center in Europe. The unique, modular and scalable power supply and cooling concept that was implemented by the data center service provider allows to use the entire area as a high-density rack space working with best efficiency values. Scalability is another advantage, since the Exastack machines can be directly scaled into larger units using InfiniBand technology.

## The successful project

Following the opening of the ISE Oracle Technology Center, the opportunity to test Exastack systems has already attracted several customers; prominent examples are the Alliance subsidiary IDS and the real estate portal immonet.de. In addition to potential users, the test center is also open to developers: ISVs can test their applications on Exadata, Exalogic and Exalytics in terms of functionality and performance and have them certified as compatible products.

## Optimum accommodation for ISE Oracle Technology Center



"We have adapted our business model to Exastack and the opportunity to present and extensively test the systems in noris network's data center. This allows us to target new customer segments," says Herbert Rossgoderer, CEO of ISE Information Systems Engineering GmbH. "After a successful Exastack test, ISE is thus able to provide customers with a complete range of services from a single source, which is unique in Germany."

The high-end database server Oracle Exadata Database Machine is an appliance, that is, a concerted, pre-configured combination of software and hardware. The merger with Sun Microsystems allows Oracle to offer such a high-performance system. Exadata is especially designed for data warehousing, business intelligence and online transaction processing applications. For this purpose, the Database Machine is complemented by Exalogic, an application server perfectly tailored to it, and Exalytics as an In-Memory Appliance. Together, all three components are referred to as Exastack. ISE Information Systems Engineering GmbH is the first Oracle Partner in Germany that has specialized in Exastack. The ability to offer Exastack testing in an operating environment requires a high-performance data center. With an IT load of up to 18.1 kVA, Exastack Machines need a reliable high-density rack power supply and efficient cooling – the Exadata specifications indicate a cooling capacity of 63,630 kJ / h.

### Long-time partner has the solution

Since ISE and noris network have been cooperating in customer support for years, it was a fortunate coincidence that the existing trusted partnership would be complemented by appropriate spatial conditions. The new NBG 6 data center is characterized by power supply and cooling cells which operate autonomously and can thus be switched on successively.

### ISE Information Systems Engineering GmbH

ISE Information Systems Engineering GmbH was founded in 1991. The company is headquartered in Grafenberg and has offices in Nuremberg and Munich. ISE specializes in consulting and implementing integrated IT strategies focusing on Oracle database applications. The company supports its customers in the optimization of business processes by offering a complete service portfolio – from analysis, consultancy, planning and implementation to operation. ISE is an Oracle Platinum Partner that has won several awards.

### noris network AG

Nuremberg-based noris network AG offers enterprise customers tailor-made ICT solutions in the areas of IT outsourcing, cloud services and network & security. Technological basis of these services is a powerful IT infrastructure that relies on noris network's own high-performance backbone and multiple high-security data centers. noris network AG is fully certified according to ISO/IEC 27001 and ISO/IEC 20000 and has a BSI certification for its own data centers. The data centers have been awarded the maximum rating of five stars in the eco Datacenter Star Audit conducted by eco (Association of the German Internet Industry).

### House of cooling wheels

The particular scalability of the data center is based on its revolutionary cooling concept: instead of supplying cold air through a raised floor, large quantities of cooled air flow directly to the IT area where it mixes evenly, and the warm air is discharged through a high double ceiling. The operating principle of the cells is called KyotoCooling and is based on a large wheel-shaped heat exchanger. The uniform efficient cooling makes the entire data center a high-density area and gives the operators of the sophisticated Oracle machines the possibility of combining them at any time into larger units producing even more heat.

### Data & facts

- ISE Oracle Technology Center
- The only European test facility for Exadata, Exalogic and Exalytics
- Coupling of several Exastacks is possible since the entire data center can be used as a high-density rack space
- Flexibly scalable cooling and power supply
- Certification and training options

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