

Success Story



The challenge

In 2010, Max Bögl Group, Germany's largest privately owned construction company, installed a 200 square meter backup data center on their premises in Sengenthal near Neumarkt (Upper Palatinate). Designed by noris network AG, the group's long-term IT service provider, the data center reflected the latest state of technology. However, a basic principle of IT security through redundancy consists in spatial separation, so Max Bögl Group chose to achieve a disaster-proof accommodation by placing the backup center at a greater distance from their live system.

The solution

When noris network decided to build a new high-security, high-availability data center, long-standing customer Max Bögl Group turned out to be the right partner for this construction project. Working closely together, the companies then set up one of the most modern data centers in Europe. As one of the first customers, Max Bögl Group moved its backup data center to the NGB data center, which connects to the company's headquarters via two 60-km fiber-optic lines arranged in a redundancy configuration.

The successful project

The backup data center that is operated for Max Bögl Group in the NGB6 data center currently comprises ten racks. Five of the racks provided by noris network are used to run central systems such as SAP. Another five (EMC and IBM) racks provided by Max Bögl Group are primarily used as storage systems. In addition, noris network hosts the Intranet environment and several Internet sites of the building company.

Backup data center for Max Bögl Group



"In 2009, we built and commissioned a new central data center. We have now moved the old location to Nuremberg. From the very beginning, we wanted to move into the NGB6 data center. The ability to use this jointly constructed, energy-efficient, high-security data center now opens up a very pleasant new phase in our trustful partnership which already lasts over a decade," says Manfred Großhauser, head of the IT organization at Max Bögl Group.

Long-standing service provider

As early as 1998, the construction company with approximately 6,000 own employees became a customer of noris network AG which, for example, provides broadband site connectivity, virtual private networks connecting the building sites around the world, and a secure global remote access for mobile users. The centralized IT infrastructure of the construction company requires highest reliability. In 2010, Max Bögl Group built a backup data center on its own premises in order to secure the company's internal data center - experts from noris network accompanied the entire conceptual design and implementation by providing consultancy services from the initial planning stages and also supplied the switch infrastructure. Although perfectly equipped, the backup data center on the company's own premises was only an interim solution.

One of the most modern data centers in Europe

When building its new NGB6 data center, noris network relied on the services of its long-standing customer Max Bögl Group. The two companies jointly set up a high-security data center according to the latest technical standards. A special feature of NGB6 is its scalability. In conventional data centers, the limiting factor often is the IT load and heat generation per rack space. Frequently, only a quarter of the racks can be filled because the cooling system is no longer sufficient

to accommodate modern server systems. In NGB6, however, it is possible to activate additional, identical power supply and cooling modules depending on the workload. The core of these modules are the so-called Kyoto wheels, which are rotary heat exchangers with six meters in diameter. Indirect free cooling and the unobstructed dissipation of hot air through the ceiling area of the IT facility ensure uniform cooling of the entire room. The entire data center can be utilized as a high-density space for fully equipped racks with IT loads of 18 kVA and more. In recent years, Max Bögl Group continuously expanded its IT environment and also made use of additional services provided by noris network. With its backup data center in Nuremberg, the company now has a solution that can grow in line with future demands thanks to the flexibility of the infrastructure.

Data & facts

- Backup data center in high-availability, freely scalable facility
- Connection via redundant fiber lines with Dense Wavelength Division Multiplex (DWDM) technology, broadband links between the locations
- Hosting of Intranet and Internet sites
- IT services for Max Bögl Group since 1998

Max Bögl Group

Founded in 1929 by Max Bögl, the Group headquartered in Neumarkt (Upper Palatinate) is looking back on more 80 years of successful corporate history. With an annual turnover of 1.6 bn and about 6 000 highly qualified employees all over the world, Max Bögl Group is one of the top 5 construction companies in Germany. Managed by the third generation of the family, the Group is also the largest privately owned construction company in Germany. The company covers all areas of construction and has realized numerous large projects such representative public buildings, stadiums, bridges, tunnels, industrial buildings, etc.

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).

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