

## A protected home for your IT systems

The safe alternative to the server room in your company.

Operating their own computer centre would be expensive for any company owner outside the industry. Legal security directives, your own quality demands and restrictions caused by enforced use of your own structural realities often make implementing computer centre infrastructure in the company's location either very complicated or virtually inconceivable, and so the risks of high costs increase immensely.

and staff costs for managed services and IT security events in a year-round, 24 hour business.

First Colo operates modern, secure co-location sites in Germany, and at geo-redundant locations across Europe. Our overall IT infrastructure is designed with full redundancy, and meets the highest levels of security and quality.

By providing enough personnel and hardware capacity we are able to implement IT projects, even larger projects, at short notice.

If you look through the graphics, you will see that outsourcing IT services in your corporate decision-making is, in fact, a timely and worthwhile alternative to having your own server room.

Our years of experience in setting up IT systems and operating computer centre services allow us to implement your tailored IT projects, in close collaboration with you.

We facilitate the accommodation of your own servers as well as purchase or lease of the fully-equipped server you want. No matter what co-location solution you go for, you can keep your initial investment costs down and only expand when you need to.

IT outsourcing of computer centre services has therefore become increasingly more attractive for medium-sized companies due to the impressive advantages: considerably lower building and operating costs, adaptable or scalable IT systems, exploitation of outside expertise for pro-active avoidance of faults as well as saving training

*Hardware components for our customers are reserved, stored in stock or processed to order in our revolutionary warehouse.*

*Provision of all hardware components makes it possible for us to set up IT systems quickly, or replace them immediately thus avoiding irritating lead times and waiting.*



# Individual performance

Housing and co-location for the highest level of demands.



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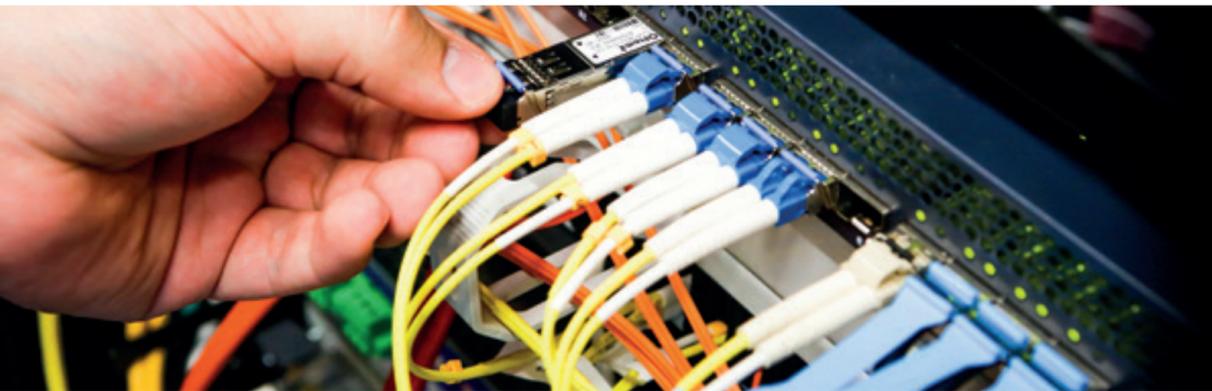
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# The benefits of First Colo

## Connection and network:

- redundant fibre-optic connection
- redundant 2.72 TBit/s Juniper Routing-Equipment
- 240 Gbit/s connection to numerous carriers, including international carriers
- IPv4 and native IPv6 connection
- scalable network structure using DWDM technology
- Open peering philosophy for the best possible network performance
- highly-efficient DDoS protection technology



## Racks (Standard features):

- 100 % Eco power
- 24/7/365 customer service
- redundant rack connection n\*1 Gbit (LACP Channel)
- every circuit with 16 A protection
- Electricity consumption visible online in real-time
- redundant climate control with cold-aisle housing
- supported by a UPS and diesel generator
- early warning system for fire
- Novec 1230 gas extinguisher system
- automatic temperature / humidity regulation

## Racks (optional services):

- Rack connection option n\*10 Gbit
- Switch/network management
- Rack with up to 30 KW power consumption
- Alarm control
- Carrier neutrality
- DSL/ISDN connection up to the rack
- Satellite installation with fibre-optic connection for lossless signal transfer to the rack.

Our customers can choose to rent individual rack unit heights (RU), quarter (10 RU), half (20 RU) and full size (42 RU), as well as complete rack rows with cold aisle housing.

# First Colo computer centre

## An innovative network at the heart of all your IT tasks.

**100% eco-electricity** We only use electricity from renewable energy sources such as wind and water, via certified eco-electricity suppliers, and so we can prove our zero CO2 balance. We also employ other energy saving measures, in particular energy-saving servers and highly-efficient cooling.

**Diesel generator** This takes over supply of electricity to the computer centre if the regular mains supply should ever drop out. This can be filled up at any time during operation. This means a power outage of several days or weeks could be handled.

**LVDB (Low voltage main distribution board)** In the event of a power outage, the UPS connected switches supply to the associated battery system without any interruption. The LVDB ensures electricity supply is switched automatically to another feed source.

**Fire early warning system** With a high-quality alarm, this gives early warning before a fire can break out, even the tiniest particles of smoke created by a smouldering fire. For conventional fire alarms, these hazards are practically impossible to detect in the early stages.

**(UPS) Uninterrupted power supply** We protect our electrical circuits with UPS systems, which take over power supply to the servers in an emergency, and also bridge peaks in voltage.

**Battery systems** These buffer a short drop-out in service, until the diesel generator takes over supply of power after approx. 15 seconds.

**NOC and SOC** The staff in our Network Operation Center (NOC) work hand-in-hand with their colleagues in the Security Operation Center (SOC). They monitor the network and equipment round the clock using monitoring systems and react to potential risks and weaknesses.

**Colo boxes** Absolutely ideal for smaller and particularly safe IT installations, every colo box is isolated and safe from manipulation with access protection and can be locked separately.

**Smoke alarm** An individual smoke alarm only triggers a technical, internal pre-alarm. In contrast, a fire alarm is only sounded when two smoke alarms in the overall room are triggered.

**Cameras** Cameras are fitted at all safety-relevant points. Only those authorised by the customer have the graded rights to gain access to the IT components.

**Assembly room** For preparation work and testing, we offer our customers a sound-insulated assembly room with a work bench, high-quality tools and personal lockers for any personal property then bring with them. In addition, there is also high-speed internet access to maintain the IT systems, alongside power points.

**Power sub-distribution** These modern devices for energy distribution feature measurement and switching functions as well as a network connection for expanded energy management. This also provides the best possible conditions for high availability - where the server cabinets are fed by at least two separate power sub-distribution systems.

**Extinguisher room** In an emergency, the server rooms would be flooded with extinguishing gas, to choke any smouldering fire at the outset. This means a fire, in the classic sense of the word, can never break out.

**Extinguishing material containers** The only suitable technology for computer centres is gas extinguishers. There is no risk of water damage, and you avoid any residue from powder or foam. Extinguishing gas does not conduct electricity, so there is no risk of any short circuits.

**Access systems** Fingerprint scanners allow access to the relevant areas of the computer centre. All access, whether successful or not, is automatically logged and archived."

**Cable channels** Stable, functional cable channels ensure understandable organisation of fibre-optic cables and so create the ideal access into the rack for the data highway. The fibre-optic cables are fed in, separated strictly from the copper wiring to avoid any mutual interference.

**Cold aisle housing** Cold air is pushed upwards through the floor and the displaced warm air is drawn off. In addition, this also delivers a strict separation of warm and cold air.

**Double floor** This provides an additional air channel as a hollow construction, in order to transfer fresh air from the air conditioning unit to the cold aisle housings.

**Air circulation air conditioning** Combined with air humidity and temperature monitoring, this ensures that cold and warm air do not mix, and only the required volume at the right temperature is transported into the cold aisle. This means the energy costs for climate control fall by around 40% compared with conventional computer centres.

**Back cooling** In colder weather, the dynamic, indirect free cooling harvests the cooling power of outside air. A water-glycol mix circulates between the air circulation unit and the external unit (back cooler) and ensures the ideal climate control for the IT components, regardless of the outside air quality (dust, pollen, air too dry or too humid).

