

colocation

Futureproof, cost-effective data center services



No. 03

firstcolo

the **HOME** of the internet
at the **HEART** of the internet



Your data and IT services through colocation

Save on space, resources and spending – while ensuring optimal availability, high-performance connections and maximum security.

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What does colocation mean?



firstcolo colocation – high-performance, availability and security

Has your current location reached its limits in terms of space and resources? Is it impossible to meet your performance and connectivity requirements, or do you need a second site for redundancy and capacity reasons?

Whatever your situation, firstcolo colocation takes care of the infrastructure, giving you the freedom to focus on your core business.

What is colocation?

Colocation involves outsourcing a company's IT infrastructure to an external data center, which brings a wealth of benefits. You save on space, resources and costs for hardware and infrastructure. firstcolo also guarantees optimal accessibility and network connectivity, as well as physical and digital protection for your hardware.

Thanks to our managed services, you can focus on your core business without the need to operate your own data center.

Why colocation?

Building and operating your own data center requires significant capital and resources. Furthermore, it is not always possible to create optimal conditions at a company's own location. These are the main reasons why more and more companies are turning to firstcolo colocation services. We are continuously developing and refining these services. Thanks to geo-redundancy and optional backup locations in the Netherlands, Austria and Switzerland, you can rest assured that your critical data is optimally protected and accessible at all times.

In practically any scenario, we offer advantages that far outweigh the potential challenges of outsourcing your IT infrastructure.

Quality

At our high-performance data centers, equipped with state-of-the-art technology, we are dedicated to realizing customized solutions tailored to our customers' needs.

-
- ✔ **Sustainably efficient with a PUE of <1,3**
-
- ✔ **24/7 on-site support**
-
- ✔ **Multi-terabit connectivity**
-
- ✔ **ISO 27001 / ISO 9001 / PCI-DSS & TÜV Level 3+ certified**
-
- ✔ **Fully redundant power, network and cooling infrastructure**
-
- ✔ **Air-cooled up to 40 kW per rack and liquid-cooled up to 200 kW***
-
- ✔ **Up to 100 G bandwidth per rack, 400 G available upon request**

* Available upon request

And sustainability

Our in-house data centers are **100%** powered by renewable energy.



Our data centers

At the heart of the internet: Frankfurt am Main



We operate most of our infrastructure at our state-of-the-art data centers in Frankfurt. Thanks to our extensive network, we are also present at numerous locations across Europe, where we deliver IT projects for business partners from a wide range of industries.



Certification? Of course!

The high-quality infrastructure of our data centers speaks for itself: Our Frankfurt locations are TÜV Saarland-certified as high-availability Level 3 data centers. This guarantees the seamless operation of approximately 20,000 server systems currently used by our customers – either via colocation or as dedicated rental servers.

Werkhaus data center

firstcolo's Werkhaus data center, located on Kruppstraße in Frankfurt, has a capacity of approximately 1,200 racks or 20,000 server systems.

Redundant UPS systems, emergency power generators, and high-efficiency climate control with an n+2 configuration make this a secure home for sophisticated applications, leaving nothing to be desired in terms of security and availability.

Our employees are on-site 24/7, allowing us to respond immediately whenever questions or issues arise.

-
- ✔ Certified to Tier 3+ standard

 - ✔ Capacity: 1,200+ server racks

 - ✔ Approximately 20,000 server systems

AOC data center

firstcolo's AOC data center, located on Hanauer Landstraße in Frankfurt, currently has a capacity of 500 racks, providing space for approximately 8,000 server systems. The infrastructure is state-of-the-art throughout.

Redundant UPS systems and emergency power generators guarantee an uninterrupted power supply. The climate control system is designed for fault tolerance, ensuring consistent operating conditions at all times.

Our 24/7 on-site team ensures immediate resolution of any disruptions.

-
- ✔ Certified to Tier 3+ standard

 - ✔ Capacity: 500+ server racks

 - ✔ Approximately 8,000 server systems

colocation – What we offer





We offer your company high-quality IT space, vendor-neutral hardware, and IT infrastructure at our own high-performance data centers in Frankfurt am Main and at redundant locations across Europe.

Bei When working with us, you can count on a powerful, flexible, and scalable infra-structure for your servers, storage, backup systems, cloud computing environments, or AI applications.

This ensures optimal availability and high-quality data management at all times. Building on our data center infrastructure, we provide a wide range of additional IT services – from secure connectivity for your systems and locations to managed services and CDN. Our portfolio extends to full IT outsourcing and enterprise-level DDoS protection. We deliver a caliber of security and performance that is otherwise typically available only to global players, ensuring your business remains protected against even the most sophisticated threats.

Offer

✔ **Provision of racks and space**

From private quarter racks to dedicated cages, we provide capacity quickly and seamlessly.

✔ **High-performance connectivity with multiple redundancies**

You will benefit from our global network, featuring multi-terabit connectivity and access to numerous internet exchange points.

✔ **Maximum efficiency for your individual needs**

Thanks to our highly scalable infrastructure, we enable the deployment of high-performance, high-density racks with a power capacity of up to 200 kW.

✔ **Multi-layered security and redundancy**

We offer the highest security standards for power supply, climate control, access control, fire protection, and all other technical systems.

✔ **24/7 service for your digital landscape**

Our highly qualified specialists are available around the clock to provide personalized support and care.

✔ **Maximum scalability and strong synergies**

Across all our services, we are always by your side to guarantee optimal conditions for your growth.

Features

- ⊕ Redundant internet handover available directly in the rack
- ⊕ Redundant climate control
- ⊕ Real-time online power monitoring
- ⊕ Racks with up to 200 kW power capacity
- ⊕ 24/7/365 on-site Remote Hands services
- ⊕ Alarm-secured racks available
- ⊕ Redundant UPS and diesel generator backup
- ⊕ 16 A and 32 A circuits at 230 V and 400 V (three-phase)
- ⊕ Geo-redundancy in Frankfurt and via additional locations in Germany and Europe
- ⊕ Cold aisle containment
- ⊕ Connectivity to almost any carrier based in Frankfurt
- ⊕ Switch and network management
- ⊕ Rack connectivity options: n*100 Gbit (1G up to 100G)
- ⊕ Novec 1230/Argon fire suppression system
- ⊕ Carrier-neutral racks available
- ⊕ Early fire detection

Networks



The network is the heart of our company, so no expense has been spared to ensure a high-performance infrastructure and entirely eliminate bottlenecks or failures.

✔ **Global low latency thanks to our multi-terabit connectivity**

✔ **+99,99% availability**



**Optimal connectivity to any endpoint:
Our traffic mix consists of 100% Tier-1
carriers. Our direct connection to DE-CIX,
the world's largest internet exchange,
allows us to achieve the lowest possible
latencies. This setup enables direct
access and optimal connectivity to over
1,000 networks.**

To provide our customers with the best possible protection against cybercrime, such as DDoS attacks, we have continuously upgraded our backbone (multi-terabit connectivity). This infrastructure allows us to mitigate even large-scale DDoS attacks with ease.

At the same time, we offer significantly higher connectivity for customer racks than industry standards: In addition to redundant 10 Gbit uplinks by default, we provide up to n*100 Gbit uplinks per rack.

A wide range of IP transit services is available at all our points of presence. This ensures you can benefit from our high-performance backbone, regardless of your location.

Our uplinks to carriers

The selection of carriers is crucial for ensuring reliability, connection quality, and low latency.

✔ **Deutsche Telekom (DTAG)**

✔ **DE-CIX**

✔ **Frys-IX**

✔ **Peering.cz**

✔ **GTT**

✔ **Cogent**

✔ **NTT**

✔ **Telia**

DWDM network

In addition to our high-quality carrier network, we operate our own DWDM network throughout Frankfurt. This connects our in-house data centers with our additional locations across the city, allowing us to transport critical business data at high speeds with the lowest possible latency. Our existing DWDM routes support transmission rates from 1 to 400 Gbit/s and are designed to accommodate future technological advancements, ensuring we continue to meet our customers' high demands.

With our Layer 1 transport services, we also offer dedicated bandwidth on our DWDM routes.

Redundant dark fiber

To provide a robust Data Center Interconnect (DCI), we established redundant dark fiber connections between our Frankfurt data centers. This ensures optimal connectivity and low latency across our locations.

To minimize the risk of failure, we deliberately configured these connections for full redundancy. In addition to geo-redundant backup concepts and encrypted data transfer, we can offer dedicated wavelengths on our DWDM equipment. But don't just take our word for it – put our dark fiber to work and see the results for yourself!

Guaranteed performance

Our entire network is designed for full redundancy. We maintain at least one extra unit of every component beyond what is needed for live operation (N+1), allowing us to respond immediately if necessary and maintain availability at all times. Our network is never overbooked; we ensure that no more than 50% of any uplink's capacity is utilized. This proactive management prevents bandwidth bottlenecks, ensuring that heavy traffic, peaks, and ad-hoc expansions are never an issue. Your infrastructure remains highly available at all times.

Why firstcolo?

firstcolo has been advising and serving customers on all matters regarding servers and networks since 2004. We currently operate two data center locations in Frankfurt am Main and are continuing to grow. The secret to our success is consistency – from using the most advanced and efficient technologies to the continuous expansion of our capabilities, paired with unlimited flexibility and a rigorous focus on our customers and service.

What drives us The internet is the beating heart of the economy – and our lives. As more products and services move online, having a digital presence has become an integral part of virtually every business model. Thanks to cloud computing, we can access our data from anywhere in the world. However, a digital society must be able to rely on IT infrastructure that is available at all times – a priority we share with our customers.

A strong partner from the start Outsourcing IT resources is a significant step that requires careful consideration. We support you right from the beginning, working closely with you to ensure all your requirements and objectives are met. Beyond providing a highly available infrastructure tailored to your needs, our expert technical points of contact are available to assist you whenever necessary – including 24/7 emergency support.

Expertise is our business We set the highest standards for ourselves, performing every task with precision, security, and efficiency. Our technicians are highly trained to handle all server and infrastructure requirements. Should a specific task require specialized knowledge beyond our core team, we can draw on an extensive pool of external experts who have been trusted partners for years.



For further information about firstcolo, please refer to our brochure **01 firstcolo – State-of-the-art data centers in Frankfurt am Main.**



As an operator of data centres in Germany, firstcolo, based in Frankfurt am Main, offers you maximum service quality.

In addition to classic colocation and server rentals, our service portfolio includes security solutions, cloud services, and managed services.

firstcolo

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