

Delivering scalable physical security for a hyperscale data center



The challenge: Delivering hyperscale security standards in a critical local market

Frankfurt is one of Europe's most important data center markets, supporting **major cloud, enterprise, and digital infrastructure operations** across the region. For a confidential hyperscale customer developing a major data center facility in the Frankfurt market, physical security needed to be delivered to a high standard while supporting the pace, complexity, and operational expectations of a hyperscale environment.

The project required more than standard system installation. **It demanded a partner with proven global experience in hyperscale data center environments**, the ability to operate effectively in the German market, and the flexibility to scale as the project evolved.

This marked the beginning of a collaborative delivery approach with Convergent.

From initial scope to scalable success.

Working in close collaboration with the customer from the earliest stages of the project, Convergent developed and **evolved the security solution in line with the site's rapidly changing construction and operational requirements**. The initial scope focused on securing the site perimeter, substation, remote gate, administration building and first data hall.

As the program progressed, ongoing engagement with the customer and wider project team identified additional requirements, resulting in the **expansion of the physical security solution** to encompass data halls and approximately doubling the original equipment scope. Convergent also assumed responsibility for the secondary containment package, further **integrating the security infrastructure with the wider construction program**.

By combining specialist data center expertise with local delivery capability, the team successfully coordinated complex interfaces across multiple trades, maintained alignment with hyperscale design standards and phased construction milestones, and delivered a scalable, resilient physical security solution that met the operational demands of a mission-critical facility.

Customer profile: at a glance

- Customer: Confidential hyperscale data center
- Market: Frankfurt, Germany
- Sector: Data center / digital infrastructure
- Project type: Multi-hall hyperscale data center security delivery
- Convergent role: Design-build security integration and delivery partner



Specialist expertise. Collaborative delivery. Scalable security.

Drawing on the expertise of its dedicated Data Center delivery team, Convergent partnered closely with the customer to deliver a scalable, integrated physical security solution designed specifically for a hyperscale data center environment. Combining specialist engineering expertise, project management and approved delivery partners, the team supported a complex phased construction programme while maintaining alignment with the customer's operational, security and commissioning milestones.

The solution provided a resilient security platform across the wider campus, integrating multiple technologies into a single, future-ready architecture capable of supporting long-term growth.

This flexible delivery approach allowed Convergent to support the customer as the project developed from its initial scope into a larger multi-hall program. By combining global specialist data center knowledge with local execution capability, **Convergent helped deliver a scalable security foundation aligned with the customer's operational and security expectations.**

Built for growth, driven by partnership

Through close collaboration with the customer and project stakeholders, Convergent successfully delivered an expanded physical security solution creating a resilient and scalable security platform to support the facility's long-term operational requirements.

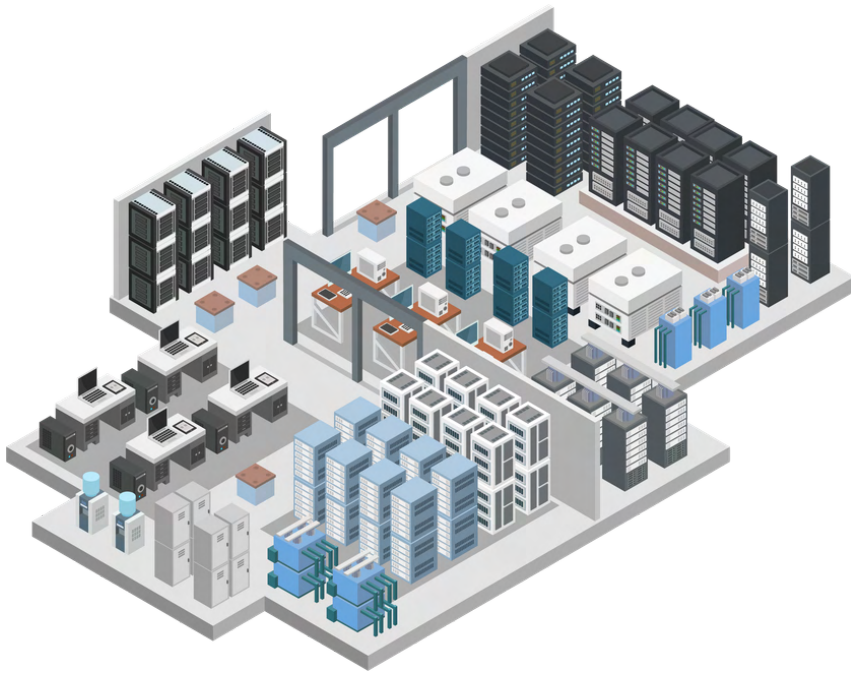
What began as a security package focused on the site perimeter, support buildings and the first data hall evolved into a significantly larger deployment spanning multiple data halls, with the overall equipment scope approximately doubling from the original project plan.

By applying specialist data center expertise and a collaborative delivery model, Convergent provided a future-ready security infrastructure that not only met the demands of a mission-critical hyperscale environment but also established a strong foundation for continued expansion as the campus grows.

By the numbers

- 5m+ security delivery project
- 5+ data halls covered in the final delivered scope
- 900+ cameras delivered across the facility
- 150+ card readers and 20+ biometric reader devices
- 600+ door contact/alarm monitoring points
- 20+ server cabinet locks, anti-tailgate, door detective and intelligent key management included
- Secondary containment added to the final delivery scope
- Equipment scope approximately doubled from the original proposal
- Delivered through Convergent's dedicated data center vertical team





Delivering measurable impact

Key outcomes include:

- Integrated perimeter and building security **improving visibility and response**
- Physical security across multiple data halls resulting in **greater systems reliability**
- Enterprise video surveillance
- Intelligent access control, biometric authentication, and anti-tailgating technology **streamlining credential management**
- Intelligent key management
- Security head-end infrastructure and system integration increasing **operational efficiency**

The completed installation supported readiness for operational handover and **strengthened confidence in Convergent's ability to deliver complex hyperscale data center projects** in the local German market. Beyond the immediate installation, the project created a platform for future phases and ongoing works, demonstrating **Convergent's ability to support customers not only during construction, but as their facilities scale and mature.**

Looking ahead - global expertise that scales with customer growth

This project demonstrates Convergent's ability to deliver complex, scalable physical security solutions for hyperscale data centre environments through a collaborative, customer-focused approach.

By combining **specialist data center expertise with local delivery capability** and the flexibility to adapt as project requirements evolved, Convergent successfully supported the delivery of a mission-critical facility in one of Europe's leading data center markets.

The project highlights Convergent's **strength in partnering with customers to solve complex challenges**, coordinating seamlessly across multiple stakeholders and construction phases while maintaining the highest standards of quality and execution. The result is a resilient, future-ready security infrastructure that provides a strong foundation for continued growth and reinforces Convergent's position as a trusted partner for confidential hyperscale customers across Europe.



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