

# case study

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## Structured cabling for maximum efficiency in data centers

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### Introduction

Soaring data demands are placing more pressure than ever before on data centers to be high-performing, space optimising and scalable. In order to handle increasing volumes of data, they must not only maximise uptime and efficiency, but be prepared for expansion to support future growth. Clear and structured design and compact infrastructure are crucial elements to reduce complications leading to inefficiencies and downtime. With a fiber optic structured cabling system, data centers will maximise uptime and perform efficiently for years to come.

Stellium Data Centers own and operate the largest purpose-built carrier-neutral Tier 3+ data center campus in the UK and is the home of the

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#### Application

Colocation  
data center

#### Technology

Fiber optics

#### Solutions

Structured cabling

#### Region

United Kingdom

#### Customer:

Stellium Data Centers

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UK's newest Internet Exchange NCL-IX. Stellium offers the highest quality connectivity to local, national, and global fiber networks, for low-latency, high-capacity open network connection and is where colocation, subsea and terrestrial communications converge.

In addition to being the UK's only data center hosting the cable landing station for the new NO-UK cable from the Nordics, Stellium's data center is also the UK hub for data transmitted between the United States, the UK and Europe on the North Atlantic Loop, a new transatlantic subsea fiber network provided by Aquacomms.

Stellium offers its clients a range of services, including multiple public clouds on-ramp offering connectivity at up to 100G capacity, expert colocation services and powered-shell data centers.

“**HUBER+SUHNER were an early supplier of Optical fiber equipment to Stellium including key termination equipment for our Metro Network. This investment has stood the test of time and continues to be a key part of our infrastructure.**”

Gerry Murray – Chief Commercial Officer, Stellium Data Centers

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## Challenge

Before a single fiber had been connected within the data center campus buildings, Stellium recognised that it needed a resilient fiber management solution with the flexibility to meet future growth and expansion. A solution was required that could support 5G, hybrid cloud and smart city technology initiatives, both regionally and internationally.

While it is difficult to predict future connectivity demands, the ability to grow is vital for Stellium. As one of the UK's fastest growing regional colocation and network data center providers, it needs to not only drive operations today but prepare to meet future demands too. Stellium also desired a solution that could be installed as soon as possible to avoid any operational disruptions.

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## Solution

Structured cabling solutions play a key role in achieving the success Stellium were looking for, by ensuring an efficient and defined data center layout, minimising downtime and maximising reliability and performance.

Key to the data center design was a centralised cross-connect optical fiber infrastructure system for the demarcation, routing and management of the incoming carrier fibers, to provision critical network services within the data center.

HUBER+SUHNER was selected by Stellium to deploy a fast turn-around and installation of two LISA optical fiber management Cable Distribution Racks (CDRs). These solutions provided dual resilience with the capability to scale up connectivity to the data center to support future expansion.



**Flexible, modular and high-density LISA fiber management system.**

The solution has been designed for customers who demand quick, simple, and reliable MACs (Moves, Adds and Changes) while expecting an attractive cost/benefit ratio. This means that maintenance produces minimal disruption, keeping data center operations active and profitable, even if upkeep is required.

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## Result

By optimising space with an efficient, high density physical foundation, operational costs have been reduced and Stellium's evolving data centers have room to grow. Fast deployment during construction and operation meant Stellium were able to deliver reliable services, quickly and efficiently.

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## More to explore

With many years of expertise and high-quality products, HUBER+SUHNER provide the expertise and solutions that maximise uptime, drive business growth, and are future ready. Learn more about connecting your data center to growth with a strategic partner that provides fast response, fast installation and future expansion.

### For more information, visit:

Data center solutions  
[hubersuhner.com/datacenter](https://hubersuhner.com/datacenter)

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