

Stellium  
Datacenters

Connectivity  
Colocation  
Cloud





# Stellium Datacenters

Stellium builds and manages data centres that offer our clients the very best in colocation, network services, and applications. We help leading global enterprises reimagine their data centre strategies through powerful, flexible, scalable solutions that support business continuity while creating rich marketplace differentiation.

Our Newcastle facility, the largest purpose-built data centre campus in the UK offers high-density power and ultra-low latency connectivity.



Colocation:

Stellium provides highly connected colocation data centres with all the ingredients needed to support IT strategies.

- A high degree of resiliency with no single point of failure.
- Carrier-neutral facility.
- Stellium’s data centres are designed to meet TIA-942 requirements for electrical and mechanical.
- Service-level agreements (SLAs) of 99.98% Uptime.
- Power densities up to 50 KW per rack so you can scale your server environment vertically, with increased power to optimize your footprint.
- Delivery of large-scale deployments and build outs in 4 to 6 weeks.
- Choose the level of power redundancy needed for applications (2N)
- Contract flexibility to ramp into purchased power and space.
- Office space available for permanent or temporary staffing.

Why Newcastle?

Newcastle is the regional capital of Northeast England, one of the UK’s core cities and an integral part of the Northern Powerhouse.

Transport links

Access to three major deep sea ports  
The East Coast high-speed train line to Newcastle providing fast and regular travel to London in less than three hours

Newcastle International Airport offering direct flights from the world’s leading carriers to over 85 world-wide destinations

Latency

Newcastle is a leading interconnection hub in the UK. Stellium offer some of the lowest latency speeds available to/from some of the world’s major hubs including:

STELLIUM to London	→	4.7	MS
STELLIUM to New York	→	66	MS
STELLIUM to Dublin	→	5.7	MS
STELLIUM to Stavanger	→	10	MS
STELLIUM to Edinburgh	→	2.2	MS
STELLIUM to Amsterdam	→	10.1	MS
STELLIUM to Paris	→	9.1	MS
STELLIUM to Stockholm	→	17	MS
STELLIUM to Frankfurt	→	19	MS



Quality of Life:

Newcastle is a city that provides a fantastic quality of life, the best in the UK according to a recent study by the European Union.  
Surrounded by beautiful National Parks and numerous Blue Flag beaches; all within 30-minutes travel time.  
The cost of living is significantly lower than London and other UK cities, which means your money goes further.

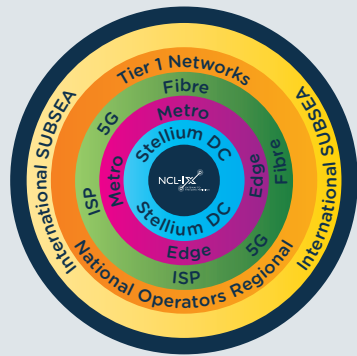
Residential property prices are 37% less than the UK average.  
Geordies’ (Newcastle natives) have a global reputation for their warmth and friendliness, and a recent survey by the European Commission voted Newcastle the happiest place in the UK.





Network:

Stellium’s carrier neutral data centre has positioned itself as the data meridian in the UK, where global subsea and terrestrial communications converge.



Global:

**Stellium offers the highest quality connectivity to local, national, and global fibre networks, for low-latency, high-capacity open network connection.**

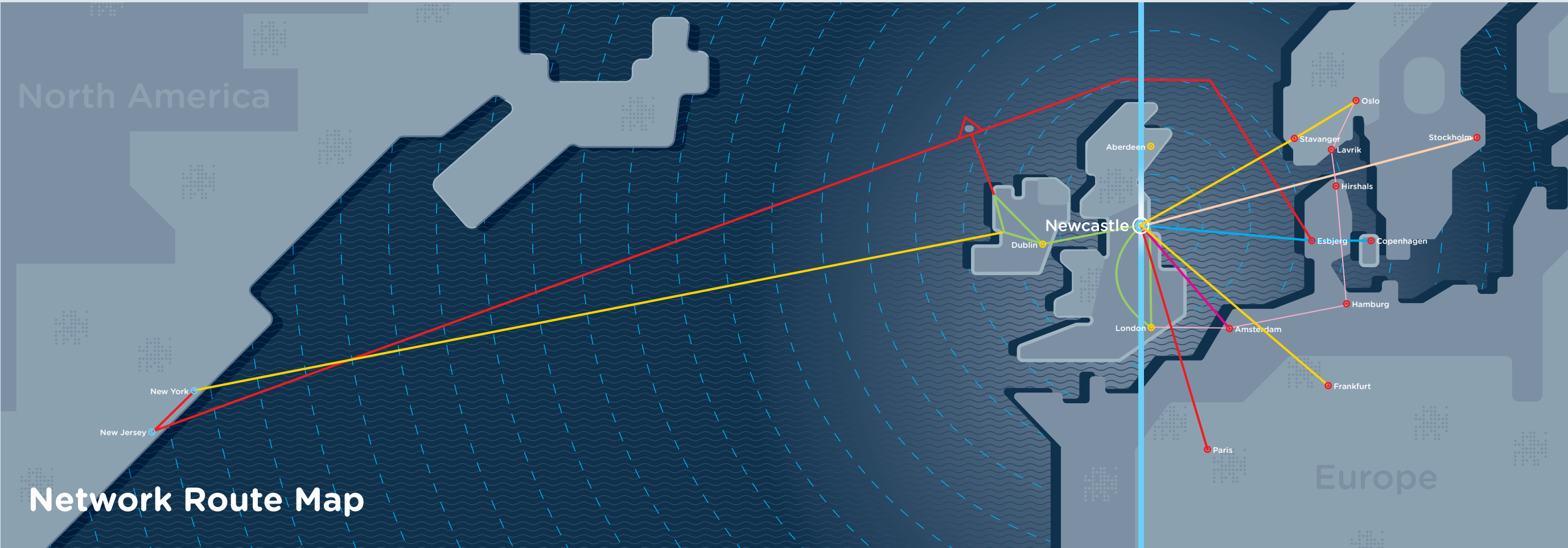
- The UK’s only data centre hosting the cable landing station for the new NO-UK cable by Altibox Carrier, from Norway to the UK - has achieved a record-breaking, industry first 800Gb/s line rate.
- The UK landing station for data transmitted between the United States, the UK and Europe on the North Atlantic Loop, a new transatlantic subsea fibre network provided by Aquacomms.

Metro:

- Stellium’s own 40 KMs metropolitan area fibre network (MAN) is an OPEN and CARRIER NEUTRAL system. It is designed to enable resilient, redundant, low latency and high capacity data exchange.
- The MAN achieves several outcomes including enhancing Newcastle City high speed network, enabling LFFN, facilitating connectivity at long haul to Tier 1 Internet locations such as London, enabling 5G services and driving the Digital Economy.

Onsite Internet Exchange Point (IXP):

NCL-IX (the Newcastle Internet Exchange), the UK’s latest Internet Exchange is located at Stellium Datacenters. Stellium built and will operate the Newcastle Internet Exchange (NCL-IX) for the good of the Internet and interconnection in the UK.







**Power:**



Our data centres offer high-density power that can accommodate cloud, gaming, high-frequency trading, and other power-hungry services:



- Our generators are concurrently maintainable, with onsite fuel reservoirs and redundant preferred refuelling contracts.
- Our IT halls have a high-density power configuration of more than 3kW per square metre.
- Rack-power densities from 4kW to 50kW.
- Power feeds are diverse A/B feeds with redundant PDU distribution.
- UPS AC power is also fully redundant with bypass switch and surge protection.
- Flexible power configurations and metered power options are standard.



**Cloud Connectivity:**

Stellium is Cloud-Ready and offers strategic cloud connectivity solutions incorporating on-site connections between clients colocation facility and the cloud. This includes direct cloud connections on-ramp for critical production infrastructure through strategic partners at up to 100G capacity:

**Clouds On-Ramp:**







**Energy & Sustainability:**

Stellium have been delivering 100% renewable electrical energy as standard to our clients for a number of years. Our current energy supply agreements are accredited by OFGEM. We continue to work with our energy supply chain to develop a wide range of renewable energy products and dedicated source traceability combined with efficiency and best value for money.

- Stellium DC Campus supplied directly via dual diverse service from 275kV National Grid.
- Onshore substation for the Blyth Offshore Demonstrator Wind Farm (currently operational with 5 turbines generating over 40MW capacity with potential to expand.
- Access to the North Sea Link - a 1,400 MW high-voltage direct current submarine power cable between Norway and the United Kingdom. At 720 km (450 mi) it is the longest subsea interconnector in the world. The cable became operational on 1 October 2021 utilising Hydro Power.
- Access to the world’s biggest offshore wind project’ Dogger Bank, which comprises of three 1.2GW sites is under construction. The Port of Tyne in Newcastle is to become the onshore base for the wind farm, which is expected to provide renewable electricity for more than 4.5 million UK homes and businesses.



Security:

Stellium offer credential-based access control, intrusion detection and unified video surveillance with interior and exterior cameras throughout our Newcastle campus. Two-factor access authentication and man traps are standard at our data centres, along with user-based permissions and managed security zones.

We deploy:



Experienced on-site data centre security guards 24x7x365



Biometric and key-card security for strict access control, up to the cage level



Secure passages to prevent tailgating



Reinforced physical infrastructure that includes concrete bollards, bullet resistant glass, steel-lined walls and perimeter fencing



Perimeter security that includes iron fences, gates and restricted access to the campus



Dedicated data halls, suites, and cages to minimize traffic

Compliance / Certifications:

At Stellium, operational excellence is part of our day-to-day organisational culture. Our commitment to innovation and high standards of excellence are reflected in

the accreditations we achieve for our Newcastle data centre and network.

Our certifications achieved are global standards that recognise the implementation of best practices within the data centre industry.

Certificates Achieved:

**ISO 27001: Information Security Management**

**ISO 9001: Quality Management**

**ISO 14001: Environmental Management**

**ISO 22301: 2019 Business Continuity Management**

**ISO 20000- 1 IT Service Management**

**Cyber Essential Certified Plus**

**BREEAM**

**PSN (Public Service Network)**

Virtual DC Tour:

A virtual tour of the Newcastle data centre can be taken below **(A)**.

Industries served:

Stellium have positioned themselves to specifically service colocation and connectivity requirements for companies in the Energy, High Frequency Trading/Fintech, Public Sector/Healthcare and Technology/Internet Services sectors. Please see more here **(B)**.

(A)



Virtual Tour

(B)



Stellium Industries





# STELLIUM

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Data  
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