



5NINES

The Data Centre Company

Welcome to Northern Ireland's First
Commercial Carrier Neutral Data Centre

www.99999ni.com

About us

Specialists in developing the most innovative, professional and flexible data centre solutions available are delivering Northern Ireland's first commercial carrier neutral data centre.

We have sited our first Northern Ireland data centre next to the GTT Project Kelvin transatlantic landing station to ensure that our customers get the fastest connectivity from the UK to the USA, Canada and Europe. We have designed a highly resilient; highly secure 24/7/365 modern data centre utilising the cool temperate climate to its maximum, thereby providing annualised PUE's of 1.15 or less.

With flexible and competitive pricing solutions, we can accommodate space from half racks up to wholesale expanse requirements and provide power densities from 3kW to 25kW.

Any requirement can be accommodated without incident via our internal resources, and we have extended our commitment of service to you via our cherished partner group who cover areas of expertise such as software defined networking, simplified risk free migration solutions and 24/7/365 managed services.

**The data centre solution
you can rely on with
passion and integrity.**

Our data centre is more than just a building where your hardware resides. As comfortable an environment as our data centre is for your data estate, we also address the needs of the people working in our facility in terms of surroundings, comfort and convenience. From hot desks to permanent office space we can provide you with a place to securely store your valuable resources. With build rooms to run, install, and test your hardware, you can make certain that once the hardware is installed, it stays installed. We also have rest rooms with showers and vending machines for those who need to refresh themselves afterwards.

Everything is provided for your convenience, and we constantly strive to exceed your expectations. As a result of this philosophy, we actively welcome your comments and suggestions.

We strive for a sustainable, secure, safe & economical solution tailored to your specific needs; we want to deliver:

Connectivity

5NINES is located adjacent to the GTT Transatlantic cable landing station, and has diverse connections to the Saturn ring. This type of connectivity enables your company to install and implement low latency, high bandwidth applications and services throughout UK, Europe and North America. Being multi carrier and SDN connected, the 5NINES facility will lower your costs and be your gateway to North America, Canada, Europe and beyond.

Carrier Neutral

We are the first commercial carrier neutral colocation facility in Northern Ireland. As a result, we provide you with an environment where you decide the best partners to acquire your connectivity with, and are not burdened or obligated to purchase transit from only one source.

Other benefits include: multiple paths and multiple carriers for redundancy and resilience and utilising different carriers for the same routes for performance comparisons.

Operating from a carrier neutral data centre enables you to gain access to an

environment of Internet and telecommunication connection possibilities. You pick and choose what is right for you, unimpeded by the priorities of others, giving you the ability to make changes as and when you decide.

Carrier Neutrality gives your company two powerful benefits: Choice, and the ability to manage and control your connectivity and cost.

Location

The first enterprise grade data centre in Northern Ireland will be located on the Atlantic Link Enterprise Campus and adjacent to the University of Ulster in Coleraine. 5NINES data centre is unique due to the fact that its proximity to the GTT transatlantic network landing station is empowering Northern Ireland's growth in the digital economy, and connecting local and international providers of IT services, cloud and content delivery solutions.

With ultra low latency networks to North America and mainland Europe, the 5NINES Data Centre provides the ideal platform to organisations that need the ultimate global connectivity solution, coupled with the reliability and security of one of the world's most energy efficient and secure data centres.

In short, our facilities are engineered to be assets in your organisation's long term strategic objectives.

Access to the facility is easy, as regular direct flights to Derry; Belfast International or Belfast City Airport operate from various airports across the UK, Europe and the USA.

By establishing a presence at 5NINES in Northern Ireland, you are strategically diversifying your data estate, while enhancing your services by connecting to some of the fastest connectivity to North America and Europe.

5NINES and Coleraine Borough Council, along with the Northern Ireland Executive; Invest Northern Ireland and the Causeway Chamber of Commerce are all committed to working together to support and develop the digital causeway for the benefit of Northern Ireland and the Causeway Coast.

Tier 3

5NINES' Northern Ireland colocation facility is painstakingly built to Tier 3 concurrently maintainable standard. Every part of every critical system is designed to reflect or in most instances exceed the requirements of Tier 3. No external fault or required maintenance could cause you a loss of power, cooling or connectivity.

Everything affecting the availability of your power, cooling or connectivity is designed to be resilient against faults. Any individual part can be switched off for maintenance, and all maintenance can be carried out without affecting your equipment's performance or availability. This is what we deliver to you, 24 hours a day, 7 days a week. This facility is Cloud-Ready and capable to manage the most demanding connectivity requirements. 5NINES has dual incoming 11KV mains feeds and 2n independent UPS pairs. Maintenance or failure of any UPS system or any other power component will not affect your critical equipment. Fully independent n+1 diesel generator systems support the facility – so even in the occurrence of a mains power failure, even whilst one of the systems are being serviced, your services remain unaffected. Cooling systems are duplicated and fed from diverse power sources. Even switching off an entire cooling system will not affect your presence or performance. Bandwidth is supplied from independent routers on two cables and are sourced from multiple carriers. Failure is not an option. We follow the principles of the European Code of Conduct for data centres, and have processes and procedures equivalent Meeting ISO 27001 and PCI DSS requirements.

When you select 5NINES for your Tier 3 colocation requirements, you get a solution designed for resilience, maintainability, and reliability. You get protection from faults and operator errors. You get certainty that your critical services will keep going – all the time.



Cooling

Cooling is a critical factor for hosted servers, telecommunications equipment and a prerequisite for any colocation data centre worth its reputation. For consistent, reliable, high-integrity services, equipment must operate within its optimum temperature and humidity envelope at all times.

Our total mechanical system is UPS backed in an n+1 configuration for your peace of mind. Our data centres provide the most efficient and resilient designs available on the market and meet our own stringent EODC (energy optimised data centre) philosophy.

The cooling solution is designed to maintain 24°C +/- 2°C at the front of every IT rack position 24 hours a day, 365 days a year.

Fully redundant and economical cooling

Cooling throughout the colocation data centre is via highly resilient and economical indirect evaporative and adiabatic air conditioning units in an n+1 configuration, providing "free cooling". For colocation suites we will build to your individual requirements, and have the cooling systems, margins and levels of redundancy that the customer specifies, from n to 2n resilience or greater.

Reliable environment

The 5NINES cooling systems ensure your servers and co-located telecoms equipment is always operating within its optimum environmental conditions. The environment is immune to any failure in the cooling systems or the electrical feeds to them.



Power

The electrical systems in the 5NINES data centre are also designed to meet Tier 3 levels of reliability. Electrical power is delivered to the data centre on dual fully-redundant feeds through a resilient ring structure. Both feeds from the substation continue to operate securely and reliably even if half of the ring is lost.

If a power feed fails, automated detection systems load-shed the data centre to on-site diesel generator plant. If both power feeds fail, a full automated switchover to diesel generator backup occurs.

This switchover is regularly tested to ensure that in times of crisis, your services continue uninterrupted.

Our on-site power generation capability is more than enough to power the whole 5NINES colocation data centre indefinitely. Twin generators to n+1 standards ensure full power performance even if one generator fails.

The on-site fuel tanks provide for 3 days continuous full load running, and contracted priority refuelling ensures deliveries during the most extreme emergencies. Our dedication to the efficiency of your data estate makes certain that no matter the crisis, 5NINES is there to resourcefully manage policies and processes against known and unknown factors.

**It just works,
worry-free.**



Security

BIL3 upgradable to BIL5

5NINES data centres are built to world class standards in physical and procedural security, and this data centre is no exception. Designed to meet the stringent Business Impact Level (BIL) security requirements of BIL3 and upgradable to BIL5. This means that we ensure a secure sterile zone of at least 8M between the 3m high anti climb fence line and any critical plant or building, with site wide CCTV; flood lights and tremble detection. We protect your interests 24 hours a day, 7 days a week, 52 weeks a year. Our security professionals are trained, qualified and accredited. They make decisions and take immediate action to ensure your interests are protected. Issues are dealt with courteously and firmly by professionals who are able to manage crisis situations.

Closed Circuit Television (CCTV)

CCTV monitoring systems and floodlighting are just a part of how we keep your investments safe and protected. Movements' out-of-hours are detected and alerted by automatic analysis of the camera images and by separate electronic movement sensors. CCTV is recorded for evidence and analysis purposes, and the facility is clearly sign posted making it clear to any potential intruder that they are being watched and recorded.

Access Control

Access to a 5NINES data centre is via controlled turnstiles that control attempts of access to the facility. Access is available on a 24/7 no-notice basis to persons pre-approved by you and on a permission-based control

system for persons who require access on an occasional basis. Out-of-hours, all entry points are blocked by mechanical roller shutters, leaving only fully-alarmed one-way reinforced fire escape doors. Within the colocation data centre, access is controlled through card reader scanners. Access is granted by Security on a daily basis to specific, controlled areas of the facility. Access to your equipment is secure, quick and easy. As a security procedure practice, unloading areas and person access are separated to ensure that no one can get access to your equipment without your acknowledgement. Each 5NINES data centre has a secure store area and an unloading area for deliveries and build rooms.

Vehicle controlled access

Vehicle access to a 5NINES data centre is through a controlled anti ram vehicle gate, which is available 24 hours a day. All deliveries go through a vehicle lock system further ensuring that your equipment is safe and secure.

Removal of equipment

Removal of equipment from the colocation data centre is managed through permission-based procedures, where only the people whom you have designated can authorise removal.

Security

5NINES data centres security keeps you and your equipment safe from theft or interference. You can access your equipment at any time of the day or night, without prior notice if necessary, but no-one else can interact with your investment without your knowledge and permission.

Cross Connects

Beyond connecting your hardware from point A to point B, our cross connects are available from a CAT5 or CAT6 cable to fibre depending on your requirements. Unlike many other companies, who supposedly offer an inexpensive price for being in their data centre, often add monthly cross connect fees. 5NINES, being an independent operation, charge a one-off fee for your cross connects with no further hidden fees.

Site Facilities

Beyond the world-class technologies and designs which is a hallmark of all 5NINES created facilities, we also acknowledge that the facility needs to also address the basics of comfort and convenience. This is why 5NINES data centres are equipped with a 24 hour accessible kitchen, showers, and vending machines, break out areas and free tea and coffee.

Build / Break-out areas come with Ethernet connectivity as well as WIFI access so you can more easily configure your hardware in comfort.

Racks

5NINES are happy to discuss your requirements from half racks to multiple full racks in our next generation data centre facility in Coleraine, each rack is configured on a bespoke basis based upon your immediate requirements, and designed to grow and adapt to various market conditions. Fully secure, our 42U racks can offer you power up to 25kW per rack from mains power supplied via 2 x 11kV incoming feeds from the primary substation. With full 2n UPS and generator back-up you can be confident that 5NINES will protect and support your immediate and long term power and space requirements.

Suites and cages

For additional layer of physical security, 5NINES can offer your organisation a solution in the form of a private data suite or cages. For smaller rooms, cages provide an additional level of security, allowing you to expand into an area, whilst ensuring all your racks are together. Our private suites are available and fully customisable with options such as diverse, secured entrances, biometric access, independent cooling and branding. A data centre inside a 5NINES data centre.

Wholesale

For customers with high requirements in space and power, 5NINES offer your organisation wholesale pricing options. This price includes for your specific requirements in relation to resilience and cooling solutions, a complete bespoke service to suit your specific needs. Your own data centre, managed and secured by 5NINES 24 hours a day, 365 days a year.

A 5NINES 42u rack comes as a standard 800mm deep x 600mm wide with combination locks (other sizes available on request). Each has A & B 16A or 32A single phase power feeds (other options available on request) Each rack comes in flexible pricing models, either all inclusive (no asterisks) or a net price with additions including power and data on an as use basis – it's your choice.



Support Services

5NINES specialise in offering world class data centre environments for your company to maximise its short and long term objectives. We provide numerous support services to meet your every need including office space, hot desks, build rooms, storage and secure stores, break out rooms, and all the essential facilities you would expect and need of a data centre.

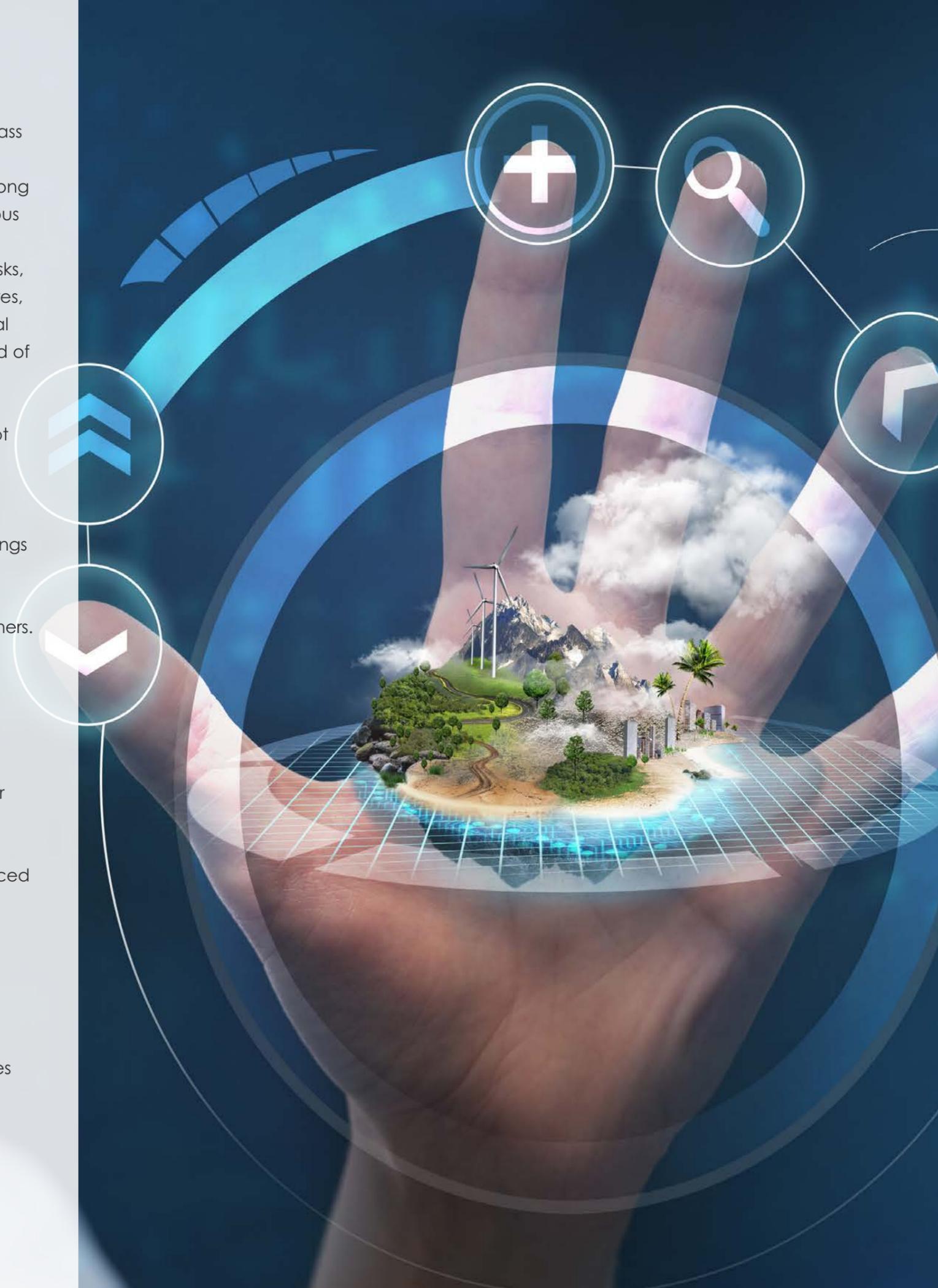
For those services that 5NINES cannot provide, we have partnered with companies who are also the best in class in offering the services which complement and enhance our offerings including build & migration services, managed services, SDN solutions, technical deployment, DCIM and others.

Technical Deployment

5NINES produce solutions from the ground up and have done so for numerous Blue Chip companies over the years.

As a result, we are uniquely experienced and proficient at creating and executing proven deployment techniques to give you comfort and security when you are transitioning into our facility.

We proactively confer with yourselves taking on the various critical factors to ensure that your systems are safe, in a proven, robust and secured environment, maximizing your data centre investment.



Migration

5NINES' migration solutions bring you all the market leading features offered by the industry's biggest providers, plus a host of additional benefits you won't find anywhere else. Backed by the highest standards of personal customer service, specialist technical support and the most competitive pricing in the business, next generation migrations services have never been more accessible or affordable.

5NINES provide a wide range of server relocation and logistic services that can be tailored to your individual requirements. We partner with leading server logistics and IT migration consultants to work with you to organise and manage UK-based and international relocations, data centre migrations and transport services, primarily for servers, communications and storage equipment.

We undertake projects that range in size from relocating a single server to thousands.

Our Services Include:

- Server relocations
- De-racking and re-racking of servers
- Installation of new server equipment
- Cable management of server equipment

Back-up Services

In times of crisis, the 5NINES Backup Services give you the ability to rapidly re-deploy your data estate and functions with minimal service interruptions to your clients. Because simply having a backup of your data is only a small part of the overall solution, 5NINES enable you to proactively protect your mission critical functions, and give you peace of mind under any set of circumstances.

5NINES

The Data Centre Company

5NINES Global LLP
Fleet House
8-12 New Bridge St
London
EC4 6AL

Phone : +44 (0) 20 3086 9959
Email : enquiries@99999.co.uk
sales@99999.co.uk
Twitter : @5NINESNI
www.99999ni.com

