colocation, connectivity & continuity

a practical guide to future-proofing networks for maximum uptime and resilience

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In today's digital landscape, business IT environments are becoming more sophisticated, and in turn, complex. Whether you're an enterprise working to stay ahead of increasingly digitally savvy consumers, or a service provider keeping those enterprise services and workloads up and running, network downtime is no longer acceptable.

Whether the services are mission-critical or not, a bad online experience can make or break customer relationships in an instant.

Customers now expect always-on availability, whether they're streaming video content, collaborating in the workplace, performing financial transactions, or accessing cloud services. Business continuity was once a contingency plan, but has become a vital competitive advantage.

> Colocation is more than just racks and servers – it's the foundation for a future-proof, adaptable and reliable network.

However, ensuring continuity is becoming more difficult due to factors like growing data volumes, AI workloads, rising user expectations and a more distributed business application ecosystem. This, coupled with real-world constraints like power limitations, infrastructure strain and inconsistent SLAs, is making it more important than ever for businesses to re-evaluate their network and business continuity plans to stay resilient, particularly if legacy infrastructure is still in play.

In this eGuide, we will explore how colocation, when combined with agile, high-capacity connectivity, can provide a simpler and smarter way for businesses to keep service access and delivery online and ahead in a competitive market. Colocation is more than just racks and servers – it's an opportunity to future-proof your network with adaptability, scalability and reliability at the core.

today's digital landscape

A growing number of business leaders are realising that traditional, on-premise infrastructure can't always keep up with today's digital demands.

For **90%** of surveyed mid-to-large sized enterprises, hourly downtime costs exceed

$300K

ITIC

Unplanned downtime costs the world's largest 2,000 companies a staggering

$40B

annually, a loss of **$200M** per company

Oxford Economics and Splunk

Demand for colocation is surging, with the global data centre colocation market projected to grow from $104B in 2025 to

$204B

by 2030, at a CAGR of 14.4%

MarketsandMarkets

Enterprises and service providers are shifting toward hybrid IT environments for additional network agility, flexibility and uptime, which are now key competitive advantages.

infrastructure limitations

As businesses deploy more data-intensive applications, compact edge computing devices, and AI workloads, these rising demands are putting increased strain on legacy infrastructure and on-premise environments:

Power Constraints

Modern applications require newer, high-density equipment, which significantly increases power requirements.

Downtime Risks

Legacy infrastructure and single points of failure increase the risk of outages, which can damage SLAs, revenue and brand reputation.

Business Continuity Gaps

Without resilient infrastructure and built-in redundancy, organisations face growing challenges in maintaining always-on availability.

Scalability Challenges

On-premise infrastructure can be slow and expensive to scale in response to customer demands or new market opportunities.

High Costs

Cooling, power, staffing, and maintenance are stretching budgets and internal team resources.

Inter-Provider Complexity

Managing connectivity across multiple clouds, partners, and carriers is complex, time-consuming, and prone to performance issues without the right interconnect fabric.

ensuring continuity with colocation

Colocation is more than just renting space in a data centre. It's a strategic way to strengthen business continuity while simplifying IT infrastructure. Instead of maintaining costly on-premise facilities, organisations can host critical infrastructure in purpose-built, third-party data centres. This shift not only reduces capital expenditure, but also enables teams to focus on innovation rather than infrastructure. It makes it easy to gain robust connectivity, power and security, with access to a global, carrier-neutral network ecosystem that prioritises uptime, resilience and reach.

One of the key advantages of colocation is dual-site access, which allows businesses to distribute their infrastructure across two geographically separate, interconnected facilities. This setup is vital for disaster recovery and redundancy planning. If one site experiences a disruption, whether due to power failure, natural disaster or hardware issue, traffic and workloads can seamlessly fail over to the second site, minimising downtime and ensuring uninterrupted service delivery.

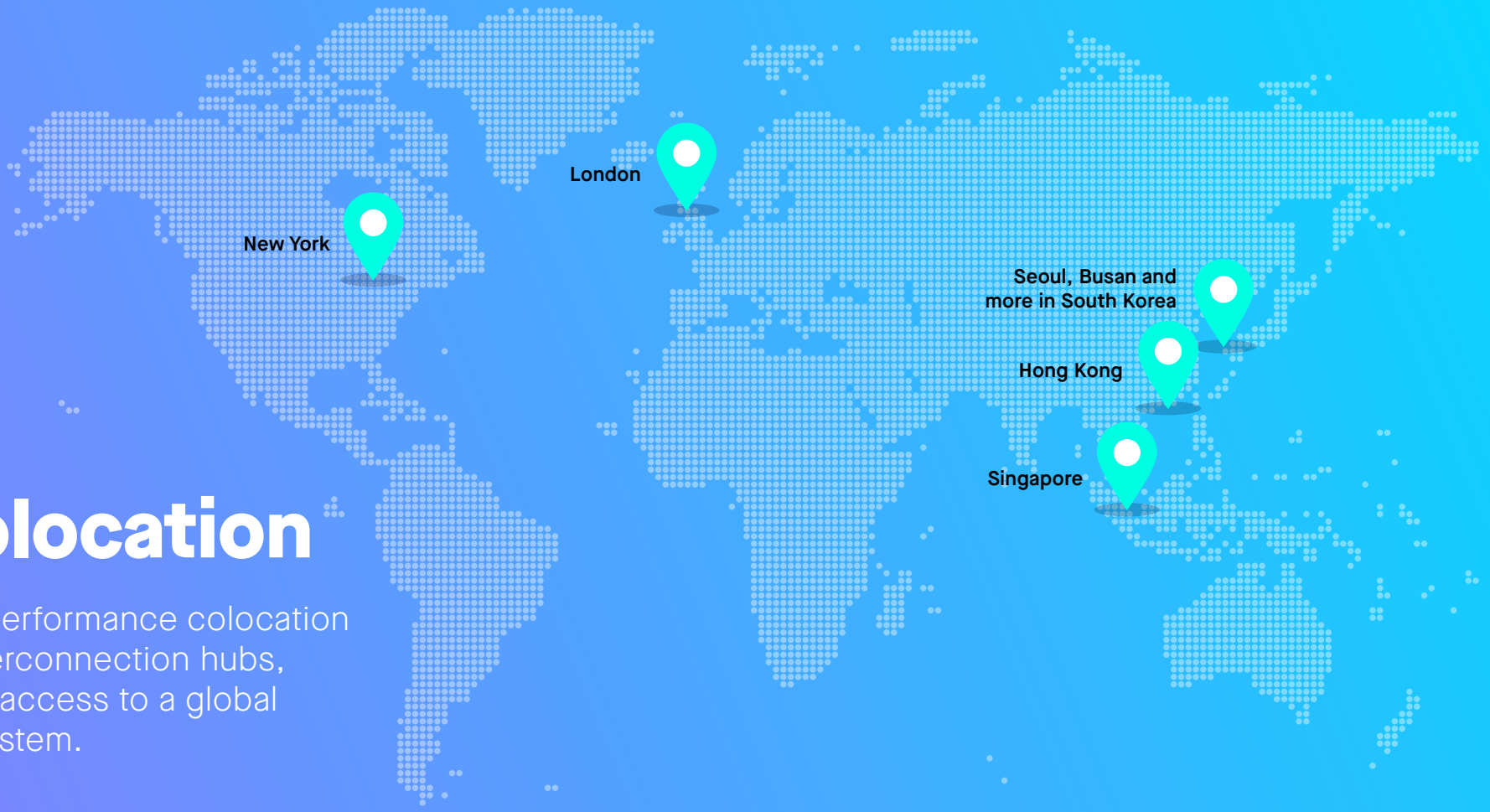
Colocation also supports business continuity by offering:

High-speed, low-latency connectivity to clouds, carriers and partners.

Physical security and environmental controls that exceed most in-house capabilities.

Power and cooling infrastructure designed for high-density, mission-critical workloads.

Beyond continuity, colocation brings cost-efficiency, operational simplicity, and access to a broader ecosystem of services. It enables enterprises and service providers to focus on delivering value, rather than managing infrastructure.



our colocation

Secure, high-performance colocation across key interconnection hubs, with seamless access to a global network ecosystem.

- Carrier-grade, next generation terabit optical global network
- High availability with 99.999% uptime
- 24/7 dedicated support
- Direct connection to world-leading CSPs, IXs and data centres globally
- Managed meet-me-room (MMR)
- Global team of experts
- Customisable private suite/cage and standard rack-space
- Industry-certified colocation environment: TIA 942, ISO 9001 & ISO 27001

key features & benefits

Global Reach

Leverage Epsilon's global network fabric of over 500 data centres, clouds, and internet exchanges via our NaaS platform, Infiny. Managed meet-me rooms simplify interconnection with partners **– enabling faster market expansion, seamless cross-border collaboration and better user experiences worldwide.**

Direct Cloud Access

Provision private, high-throughput, low-latency connections to leading global and local cloud providers, including hybrid and multi-cloud options **– optimising application performance and ensuring secure, reliable access to critical cloud services.**

Safeguarding Data & Applications

Our TIA 942 and ISO 27001 certified facilities deliver a secure, resilient colocation environment backed by disaster management solutions and robust power backup **– protecting your business from data loss, downtime, and compliance risks.**

Redundancy & Resilience

With advanced cooling systems, geo-diverse disaster recovery, and robust power backup options, we ensure high availability and 99.999% uptime **– minimising disruption and keeping your operations running smoothly even in the face of local outages or system failures.**

Flexible & Scalable Infrastructure

Choose from half racks, full racks, or private suite configurations, all supported by SLA-backed security and expert support **– so you can scale efficiently, adapt to changing needs, and stay agile in a competitive landscape.**

Simplified Management

Benefit from 24/7 monitoring and remote hands support from our expert team **– freeing up your internal resources and reducing operational complexity to allow you to focus on strategic priorities.**

mitigate risk. maximise uptime.

With increasingly complex IT environments and 24/7 availability becoming the new norm, having the right infrastructure in place is crucial. Colocation offers a practical, scalable way to support business continuity, reduce risk, and stay flexible in a changing landscape.

Future-proof your network today. Book a free consultation today and discover how Epsilon can help you maximise uptime, improve customer experiences, and build new competitive advantages that support your long-term business goals.

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Interconnecting Your World:
20 Years of Colocation Experience

Epsilon Telecommunications is a leading global software-defined network provider that offers a comprehensive suite of end-to-end connectivity and communication solutions, including colocation services, to the world's largest carriers and organisations.

With Infiny, our award-winning Network-as-a-Service (NaaS) platform, we enable seamless on-demand connectivity and colocation in top-tier facilities. Combined with a high-performance and extensive global network that spans Europe, the Middle East, the United States, and Asia, you can achieve complete agility and reach, truly interconnecting your digital world.

Ready to discuss Colocation?

Talk to An Expert →

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