Colt Colocation Services

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The information delivery platform for European business

Award winning Colt Data Centre Solutions

2012: Modular Data Centre Solution of the year winner at 5th Datacentre Awards by Broad Group

2012: Tier III concurrently maintainable certification based on the design for Colt London Data Centre

2012: Data Centre Innovation of the Year 2012 award by Information Age for a video case study on delivering a 500m2 data centre from the UK to Iceland.

2011: The Uptime Institute awarded Colt with Management & Operations (M&O) Stamp of Approval for data centre operations. Colt is the first data centre provider in Europe to receive the Award for operational proficiency.

2011: European Award for "Energy Efficiency in Data Centres" at the Datacentres in Europe Awards. Colt received the award in recognition of our highly successful Energy Efficiency programme, reducing PUE by 10%

2010: Datacetre Leaders Award for the modular data centre solution awarded to Colt by Datacenter Dynamics jury.

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Our assets

33,000km European network connecting 19 data centres and 17,000 buildings in 38 MANs* and 80 cities

4,825 employees serving more than 35,000 customers across Europe, with sales of €1,583m in 2010

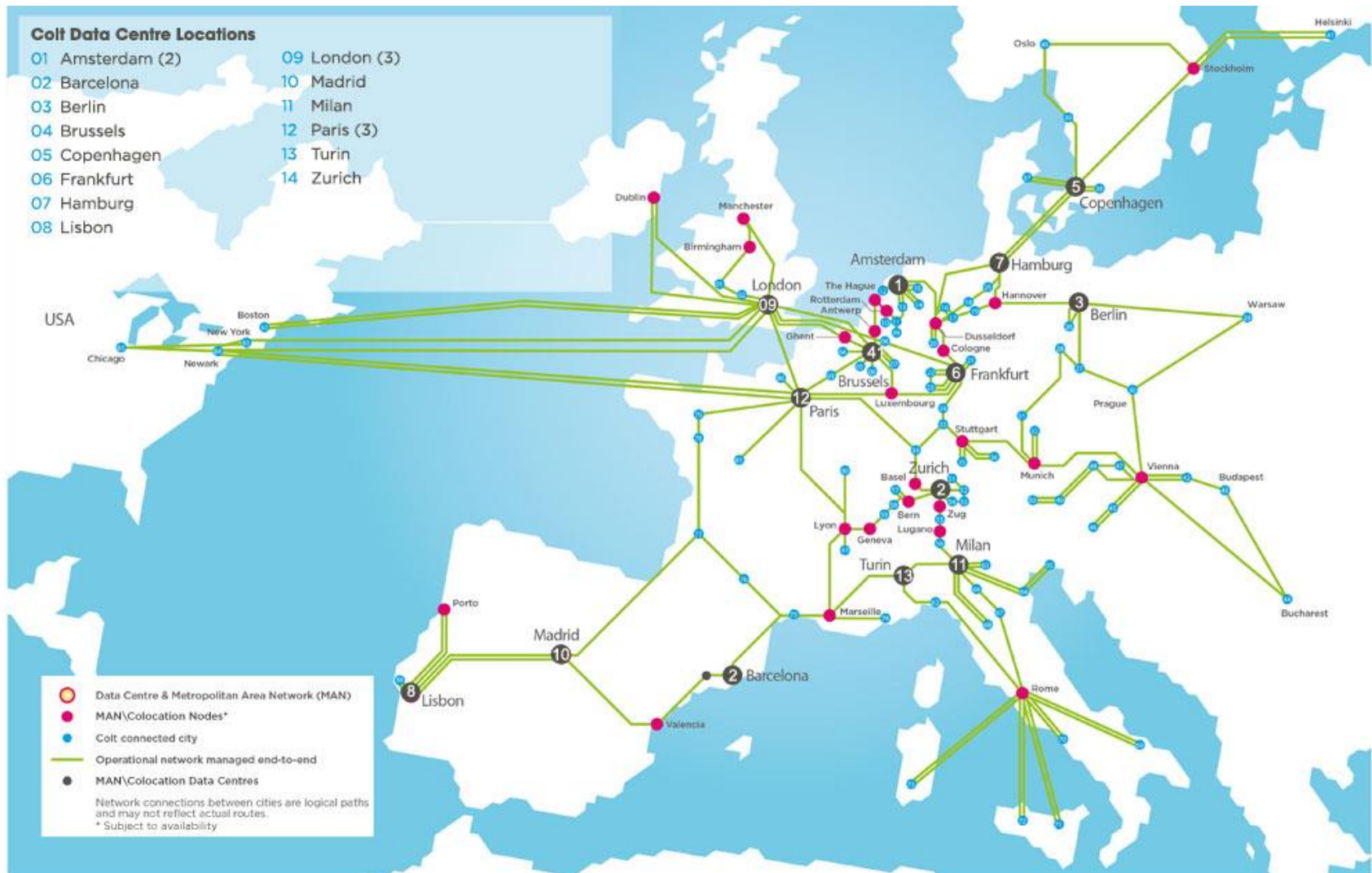*The information delivery platform for European business*

Shared services centres in India (back office), Barcelona (front line) and London (network management)

Award-winning portfolio of low latency networking, advanced IT infrastructure, applications and security services

We are uniquely positioned to provide integrated computing and network services, enabling businesses to work smarter, faster and further

*Metropolitan Area Networks

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Colt Data Centres

Colt Data Centre Locations

01 Amsterdam (2)	09 London (3)
02 Barcelona	10 Madrid
03 Berlin	11 Milan
04 Brussels	12 Paris (3)
05 Copenhagen	13 Turin
06 Frankfurt	14 Zurich
07 Hamburg	
08 Lisbon	

○ Data Centre & Metropolitan Area Network (MAN)

● MAN\Colocation Nodes*

● Colt connected city

— Operational network managed end-to-end

● MAN\Colocation Data Centres

Network connections between cities are logical paths and may not reflect actual routes.
* Subject to availability

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Why Colocation with Colt?

Utilising Colt's facilities:

- Lower TCO cost per unit as per self build

- Continuous PUE improvement process in place

- Flexibility in your asset structure

- Readily available Tier III+ facilities

- Well defined SLAs

- Award winning and innovative colocation

- Strategically located around the major European DC Hubs

- Proximity hosting to financial hubs, access to SWIFT

- European ISO27001 certification

- Access to Colt's Information Delivery Platform

CERTIFICATE NO. 78946

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Credibility and Performance

Colt is Colocation committed:

- Over 15 years of experience

- 19 major data centres around Europe

- Over 110M€ to build our data centre infrastructure

- Significant financial stability from a well capitalised, debt free and profitable FTSE 250 company

- End-to-end data centre solutions to the highest standard

- Service-oriented data centre company, not merely a real estate data centre provider

- ITIL-based service management

- ISO27001 security levels

- ISO9001 quality management

- ISO14001 environmental management standards

- Colocation in Tier III+ data centres

- SLA on power availability and climate KPI's

- All sites ISO27001 Certified

- Significant install base with financials

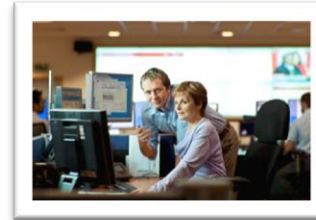- Proximity hosting to financial hubs, access to SWIFT.

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Unparalleled Data Centre Infrastructure

Purpose-built, pan-European data centres:

- 19 fully integrated European data centres connected by our fibre network

- 25,600m^2 hosting space used

- Over 8,500 customer racks

- Over 25,000 devices (inc. customer)

- Over 8,000 services under full management

- Over 600TB of back-up monthly

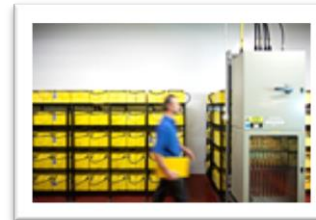**24x7 dedicated Security Operations Centre**
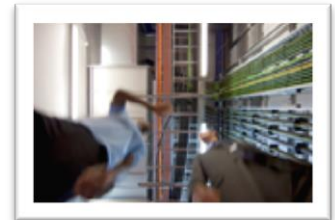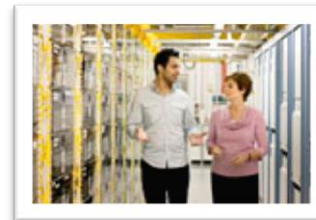
- ISO/IEC 27001 certified

24x7
Monitoring

24x7 Physical /
Logical security

Fault tolerant
power supplies

Controlled
access

Fully resilient
air conditioning

Rapid fire
suppression

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Standard Rack based solutions

Standard 10A/230Vac :

- Pre-configured racks 600 x 1000 x 47 HU

- Power per rack 2,3kW inclusive

- Placed in hot aisle / cold aisle corridors

- 2 x 16A/230Vac

- 1 x 24 port patch panel UTP

- 2 x 12 way IEC

- Front / back locked cabinet, mesh doors

- 24x7 secure access (whitelist, also 3rd party)

- Up to 99.99% availability on power*

- Up to 99.99% service level on climate*

- Debox room available in selected locations

* Pending facility used or availability on site

Optional:**
- Power upgrades* 20A/230Vac
- Other rack dimension (80 cm wide, 110,120 depth)
- Cabling
- Smart PDU
- Managed backup
- Managed SAN / NAS storage
- Hybrid Cloud solutions
- Remote Hands
- Rack swap out to Main frame rack

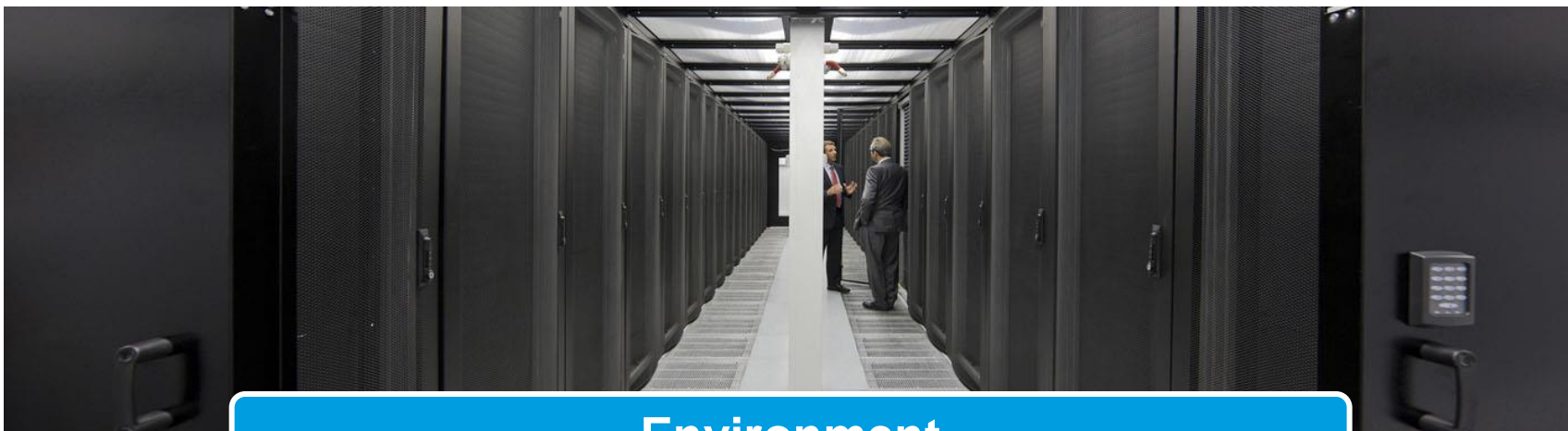**This can lead to additional cost and / or delivery times

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Colt Data Centres

Building and facilities

Feature	All Data Centres
Construction type	Brick and double skin roof
Connectivity	Dual Entry
Flooring	600mm x 600mm raised tile
Floor loading (point)	4.5kN or 450kg
Floor loading (distributed)	12kN/m^2 or 1,200kg/m^2
	Madrid-1: 700kg/m^2 Barcelona-1: 800kg/m^2

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Colt Data Centres

Environment

Feature	Tier III+ Data Centres	Tier II ≤ Tier III Data Centres
Cooling units design	≥ N + 1 (hot aisle / cold aisle design to support a maximum average cooling of 1.2kW/m2)	
Temperature threshold	21°C ± 1.5°C within sensor tolerance	21°C ± 5°C within sensor tolerance
Humidity threshold	50% ± 15% within sensor tolerance	50% ± 20% within sensor tolerance

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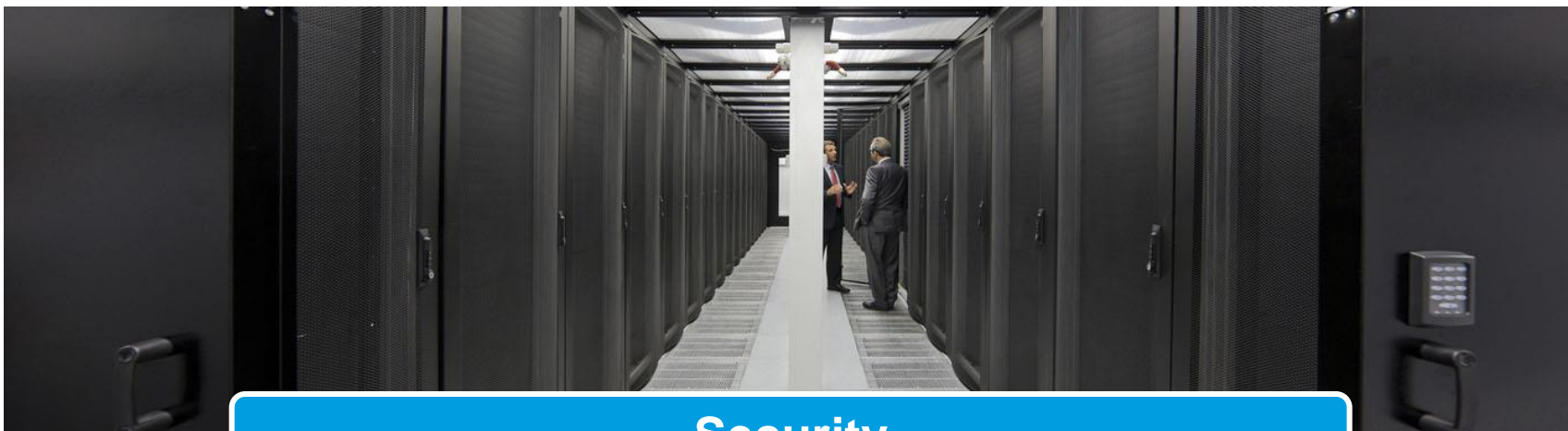
Colt Data Centres

Power

Power to Colt Data Centres is supplied as a resilient service, with two power feeds delivered to each rack.

- Each feed is delivered via a separate route and power distribution panel
- Full dual UPS configuration is permanently online
- Onsite generators provide dual resilience as a minimum
- Colt Data Centres have diverse power supply feeds

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Colt Data Centres

Security

Feature	Tier III+ Data Centres	Tier II ≤ Tier III Data Centres
Security guards	On site (24x7)	On site (office hours)
Access control	Staffed security / photo card access system	
Visitors' entrance	Video monitoring / secure two-door airlock	
Monitoring	Central alarm monitoring (UK sites) and on site alarm monitoring	
Secure areas (customer access)	Data halls, equipment delivery areas, storage areas, rack build areas (Lisbon: data hall only)	

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Colt Data Centres

Monitoring and Support

Feature	Detail
Network	Network Monitoring Centre operates 24x7 monitoring of Colt network
Security	Security Operations Centre operates 24x7 monitoring of security elements
Monitoring	Customer Management Centre operates 24x7, centralised monitoring of managed devices
Customer service	Technical Helpdesk available 24x7 for customer incident reporting (except where noted)

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Case Study LICO

"Colt's answer is fast and flexible, aligned to LICO necessities, helping LICO focus on our business"

José Pinar Castellano
Media and Technology Director, LICO Leasing

☐ Transformation
☑ Cost reduction
☑ Agility
☐ Risk mitigation
☑ Innovation

Business	LICO Leasing is a reference company providing finance services: Leasing, Renting, Factoring and Payment Management. Although it provides services to all types of companies, it is focused on retail, SME* and SOHO**.
Requirements	LICO Leasing was looking to improve their infrastructure to better adapt to new business and customer requirements. An additional objective of the company was to reduce IT Management costs and use internal resources to provide new services.
Solution	LICO Leasing renewed all IT infrastructure and data centres, migrating core components to Colt data centres. As a result, LICO has more flexibility to choose configurations, performance and high resilience solutions. The service is covered by high quality SLAs.
Why Colt?	Colt's solution allows LICO to grow with ease, when they need it.

*Small to Medium Enterprise , **Small Office, Home Office.

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Case Study Aspen

*"*We rely on Colt to monitor our system 24x7, and now that we know our data is working for us, we can concentrate on our overall IT strategy*."*

Andrew Turner, Head of IT
Aspen

Business	Aspen Insurance Holdings Ltd ("Aspen") is a global reinsurance company based in Bermuda and listed on the New York Stock Exchange
Requirements	Blank canvas from which to set up a global IT infrastructure to support its worldwide operations
Solution	To provide a dual site data centre built around business continuity planning
Why Colt?	Colt would not only supply their technology needs, but also become a partner.

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Thank you

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Data centre tiers

Tier Requirement	Tier I	Tier II	Tier III	Tier IV
Source	System	System	System	System+System
System Component Redundancy	N	N+1	N+1	Minimum of N+1
Distribution Paths	1	1	1 normal & 1 alternate	2 simultaneously active
Compartmentalisation	No	No	No	Yes
Concurrently Maintainable	No	No	Yes	Yes
Fault Tolerance (Single event)	No	No	No	Yes
Uptimes (Availability)	99.67%	99.75%	99.98%	99.99%

Colt Data Centres ≥ Tier III

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