

UK Regional Data Centre Market 2020-21

Poised for growth



XX XX

×

××K

By Tim Anker, Director,
The Colocation Exchange Ltd

Confidentiality notice

Version 1.3. This document contains confidential material solely for the purchaser.

All reasonable precautionary methods in handling the document and the information contained herein should be taken to prevent any third party from obtaining access. No responsibility is taken by The Colocation Exchange Limited for the use of this report by any third party.

This work is based upon sources believed to be reliable, but the publisher does not warrant the accuracy or completeness of any information for any purpose and is not responsible for any errors or omissions. The views and opinions expressed in this report are solely those of the author.

Methodology

Colo-X's independent position in the UK colocation industry, and our interaction with providers of all shapes and sizes, gives us a unique ability to assess the retail colocation market. Our price findings are based upon information we believe to be reasonably available in the market, or which could be fairly easily discovered by an external consultant. Where pricing is used it should be considered 'our opinion' on pricing rather than company specific price quotes. Unless specifically mentioned, pricing information in the report is always quoted on a power-included basis.

Colo-X has been involved in the UK colocation industry since 1999, meaning we have access to a wealth of in-house historic data from both transactions and quotations. We are able to utilise this information together with our overall experience, market intelligence and impressions gathered through numerous meetings, conversations and dealings. The author of this report also founded and operates Crosspoint Colocation Ltd (now part of Amito Ltd) a 100-rack colocation business that uses capacity in London Telehouse, Equinix LD5 and LD8, Global Switch, Everest Data Centres, and Volta. Amito spends over £1.5m per year on London colocation services and operates its own 1,000 rack data centre in Reading.

© Copyright 2020 The Colocation Exchange Limited. All rights reserved. No part of the contents of this report may be reproduced or transmitted in any form by parties other than those employed or engaged by the purchaser, by any means without the written permission of The Colocation Exchange Limited.



Introduction

With all the attention focussed on the huge growth we're seeing in the London and M25 data centre market, mostly driven by the insatiable demand for wholesale based hyperscale requirements, I have long felt the UK regional market (i.e. that part of the market away from the M25) needed a thorough overview, which I am pleased to present in this report.

The Colo-X database covers 49 facilities in this part of the UK market, of which four are wholesale focussed. Just like the market in London, these four data centres are having a big influence on overall capacity, especially from the two operators who have the most traction so far. However, in researching this report I have definitely felt a sense that things are now changing, even in the retail-focussed part of the regional market.

Obviously, we are now seeing the impact on enterprise of Covid-19, and the shake up in how businesses operate is now driving small-scale data centre requirements. For several years there has also been much talk (hype?) about 'edge' in the industry, but our top-down review of edge demand suggests the timing is still too early. That said, we've recently uncovered two specific examples of UK edge deployments – and the longer-term drivers are definitely there, as our review highlights.

With Equinix now planning what we estimate will be 30MW of new Manchester capacity (for MA5 and MA6); a revitalised 32MW potential being brought to market by Stellium in Newcastle; and the really impressive new offering from DataVita in Glasgow (one of the few UK facilities to have both Tier 3 Uptime Design **and** Construction certifications), it does indeed look like things are beginning to get going again in the UK regional data centre market.

I hope you enjoy our report, and I look forward to your feedback and discussing it further.

Tim Anker

Director, The Colocation Exchange Limited December 2020



Contents

Confidentiality notice	2
Methodology	2
Introduction	3
Executive summary	
Section 1: Market overview	10
The regional colocation market in context	11
The UK market as a whole	
The colocation market within London and the M25	
The regional UK colocation market	
Suppliers of regional UK colocation capacity	14
Regional colocation review	16
Eastern England	
Midlands	
North East England	
North West England	
South East, South and South West England	
Wales	
Scotland	
Northern Ireland	
The regional edge	22
Edge lessons from the US	25
Covid-19 impact on the European data centre industry	29
1. Hyperscale = 80% of demand in Europe, and health of this sector is key	
2. Merger and acquisition activity continues	
3. Share prices of industry participants continue to surge	
Covid-19 implications for the regional colocation market	32
Key operators in the UK regional market	34
Equinix Manchester	
Equinix MA05 and 06, Agecroft, Salford: 30MW new Manchester	
data centre campus	
Pulsant	
Node4	
Iomart plc	
Wholesale data centres in the regional UK market	43
Commercial aspects of the wholesale data centre model	45
Wholesale providers in the regional UK market	
Colocation pricing in the regional UK market	51
Wholesale pricing	



Retail colocation pricing	
How does regional colocation pricing compare with London and the M25 market?	53
London ecosystem pricing 2016–2020	54
London non-ecosystem pricing 2016–2020	
Comparing regional UK colocation pricing with London	56
Why is regional UK pricing at a premium compared to London	
non-ecosystem pricing?	
Regional colocation pricing summary	
Regional retail colocation packages (including part-racks)	59
Successful retail colocation packages in the regional colocation market	
Quarter and half-rack colocation packages	
Quarter and half-rack pricing	
Summary of retail colocation packages in the UK regional market	
Regional space estimates (in '000 sq ft) March 2020	
Section 2: UK regional data centres	65
UK regional data centre location map	
5NINES Northern Ireland	
AIMES, Kilby House	
aql Leeds DC1, DC2 and DC3	
aql Leeds DC5	
Ark Spring Park Campus, Corsham.	
ASK4 Sheffield DC1	
Blue Chip, Bedford	
Cogeco Peer 1, Havant	
DataVita Glasgow	
Equinix MA1 (Telecity Williams & Kilburn House) Manchester	
Equinix MA2 (Telecity Reynolds House) Manchester	
Equinix MA3 (Telecity Joule House) Manchester	
Equinix MA4 (Synergy House) Manchester	
GTP3 Data Centres, Birmingham	
Hardy Fisher Data Centre Leeds	
Host-IT, Milton Keynes	
Indectron Gloucester	
Iomart Glasgow DC1	
Iomart Leicester	
Iomart Nottingham	
LDeX 2 Manchester	
MIGSOLV The Gatehouse, Norwich	
Next Generation Data, Newport	



Node4 Derby	
Node4 Northampton	118
Node4 Wakefield	120
Proximity Data Centres Edge 1 Nottingham	122
Proximity Data Centres Edge 2 Wakefield	124
Proximity Data Centres Edge 3 Bridgend	126
Proximity Data Centres Edge 4 Chester	128
Proximity Data Centres Edge 5 Liverpool	130
Pulsant Edinburgh Medway (former Onyx)	132
Pulsant Edinburgh Newbridge	134
Pulsant Edinburgh South Gyle (formerly Scolocate)	136
Pulsant Milton Keynes	138
Pulsant Newcastle Central	140
Pulsant Newcastle East	142
Pulsant South Yorkshire	144
Redcentric Harrogate	146
SCC, Fareham	148
ServerHouse Fareham Data Centre	150
Six Degrees Birmingham South	152
Stellium Newcastle data centre campus	
Teledata, Delta House, South Manchester	
The Bunker, Kent	
The Bunker, Newbury	160
UKFast MaNOC4 Manchester	162
UKFast MaNOC5, 6 & 7 Manchester	



Tables and figures

- 1. UK carrier-neutral colocation capacity (net tech sq ft, Mar 98 to Mar 20)
- 2. Regional data centre market as percentage of total UK customer power (MW)
- Regional data centre market mix customer power (MW)
- 4. Percentage split of UK data centre market wholesale/retail (2010-2020)
- 5. Central London/M25 data centre market (2010-2020)
- 6. Total UK regional colocation capacity with retail/wholesale split (1998-2020)
- 7. Breakdown of UK regional colocation capacity by supplier type
- 8. UK regional colocation market 2020 capacity by provider type
- 9. Regional data centre capacity growth by subregion 2016-2020
- 10. Manchester data centre capacity and the impact (to come) of Equinix MA05 and MA06
- 11. EE 5G UK coverage map
- 12. US specialist edge colocation providers summary
- 13. US tower REITs and edge data centre developments
- 14. Recent data centre transactions involving UK and European companiess
- 15. Equinix share price chart
- 16. Digital Realty Trust share price chart
- 17. Manchester colocation capacity by operator based on net tech sq ft
- 18. Equinix Manchester capacity in 2020 and with MA05 and 06
- 19. Locations of the Agecroft data centre campus (Equinix MA05 and 06) with distances from MA03 Joule House
- 20. Locations of Pulsant's three Edinburgh data centres
- 21. Pulsant regional UK data centre capacity (excludes Croydon, Maidenhead and Reading)
- 22. Node4 data centre locations and capacity

- 23.lomart's 2007 Easyspace data centre acquisition: summary of sites
- 24.lomart's national data centre estate 2020 (source lomart website) including LDeX
- 25. London annual data centre take-up
- 26. Recent examples of large-scale data centre campuses around London
- 27. Data centre 101: what goes into building a data centre
- 28.EMEA data centre build cost per MW delivered in 2019
- 29. Cost per MW build cost for a 2N product
- 30. Wholesale leasing rates per kW per month
- 31. Regional UK wholesale data centre capacity estimated net sq ft
- 32. Stellium Data Centres subsea network connections
- 33. Colo-X Retail colocation pricing examples (41 quotes described by operator type, region, capacity quoted for, based on price per-rack and kW, with notes)
- 34. London colocation ecosystem pricing: middensity (3.5–4kW per rack)
- 35. London colocation non-ecosystem pricing: mid-density (3.5–4kW per rack)
- 36. Colocation pricing by market 2020: mid-density (3.5–4kW per rack)
- 37. Three premium operators dominate half the regional UK colocation market
- 38. Differences between ecosystem and nonecosystem colocation solutions
- 39. Quarter-rack pricing examples
- 40. Half-rack Pricing examples
- 41. Regional space estimates (in '000 sq ft) March 2020
- 42. Colo-X regional colocation database, facility by operator, location, address, capacity, estimated occupancy 2017



Companies referenced in the report

4D EdgeMicro Onyx 5Nines EdgePresence Peer1

Aegis EE Proximity Data Centres

Aimes Equinix Pulsant

Amazon Web Services Etix Everywhere PureDC

American Tower Exponential-e Redcentric

Amito Global Switch Redwire

Apple GTP3 Santander

agl Hardy Fisher SBA Communications

Ark Data Centres Host-IT SCC

Ask4 Indectron Scolocate Blue Chip Infinity Serverchoice Blue Square Data Serverhouse Interxion BT Global Services Six Degrees **IO Data Centers** CeretusIT lomart Stellium CityFibre **IXEurope** Telecity Colo Atl L51 Developments Ltd Teledata CogecoPeer1 LDeX Telehouse Crown Castle Level3/CenturyLink The Bunker DartPoint M247 **UKFast** Datavita Memset **UKGrid**

Data Centre Intelligence Ltd Migsolv Vantage Data Centres

DatumNew Continuum Data CentresVirtusDedipowerNext Generataion DataVoltaDigital Realty TrustNode4Zenium

EdgeConneX NTT





UK Regional Colocation Market 2020–21 Poised for growth

Report summary