



Connect - Transit, IP-VPN & Metro Services

Network services connecting every area of your business

It's your data and at UKSolutions we realise the importance of it as much as you do. We operate a next generation network that is secure and resilient - meaning your data gets to where you need it to be, instantly. UKSolutions allows organisations to access IP-VPN style private networks by delivering robust IP transit services through our extensive network of metro and PoP to PoP services available in London, Manchester and New York.

UKSolutions

UKS Limited, Birmingham Road, Studley, Warwickshire B80 7BG
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Your data, carefully handled and protected by us. The UKSolutions connect portfolio provides private networks solutions, enabling worldwide connectivity for our customers. From ADSL to private circuits, the solutions delivered by UKSolutions are innovative and continually evolving.

IP-VPNs, MPLS And Private Circuits

UKSolutions works in partnership with a variety of leading telecoms providers, meaning that the high quality solutions we provide are tailored to the specific needs of each individual customer. Connections range from simple point-to-point links - connecting two customer sites to complicated, point-to-multi point solutions that provide strong and resilient corporate network solutions; connecting client sites, racks and Internet bandwidth through our Studley campus in Warwickshire.

Key Features

- ▶ **Secure**
We offer fibre, Ethernet over MPLS with unique VLAN ID verification or Ethernet over SDH, with separate transmission paths
- ▶ **Resiliency**
Protected services are available with diverse routing, as well as options offering sub 50ms restoration
- ▶ **Low Latency**
Traffic is routed across the quickest path possible, ensuring data is delivered in the quickest possible time
- ▶ **Scalability**
You select the bandwidth and CDR that best suits your requirements
- ▶ **Service Level Agreement**
All our Connect solutions offer a single SLA and fast fault restoration times

Product	Connectivity	Speeds
UKS National Connect	Long distance point to point, point to multipoint or point to Internet Ethernet or SDH circuits to sites in the UK.	ADSL, SDSL, 2Mbps up to 1000Mbps
UKS International Connect	Point to Point connectivity to Sites in mainland Europe and beyond based on Ethernet or SDH technology	2, 34, 45, 155 & 622Mbps

Performance

Connectivity	xDSL, SDH or Ethernet in 10mbps, 100mbps, 1000mbps interfaces.
Reliability	Carrier-class reliability through use of UKS own network and tier-one partners delivers excellent end-to-end performance
Support	Supported by a comprehensive SLA, offering service credits if we fail to deliver an excellent service 24 x 365 network monitoring with a Fault Restoration guarantee

Technical Specification

Connectivity Options	2Mbps to Gigabit and increments thereof
Committed Data Rates	(According to Circuit size) 1 to 100Mbps
Interfaces	RJ45, X.21, G.703
Backbone Technology	Layer 2 MPLS, Ethernet, SDH

Service Level Agreement

SLA (all Connect products)	99.5%
Target Time to Restore	8 hours
Contract Period	1-5 years
Delivery (to Site)	Usually 85 working days from execution of order
Delivery (to UKS PoP)	Usually 15 working days from execution of order
Fast Track	Where quicker lead-time is desirable, a Fast Track option may be available

Your data, protected by us

We have chosen to implement a managed bandwidth service in contrast to many datacentres that operate on a 'bandwidth neutral' basis. This guarantees faster and more secure access to your data, as and when you need it.

IP Transit and Internet Access

UKSolutions are an established member of the London Internet Exchange (LINX), one of the largest and most successful Internet exchange points in Europe. As a result, our connections are complemented with a number of major international providers.

Metro Interconnection Services

Our Ethernet based service is designed to deliver cost effective and reliable datacentre to datacentre cross connections. Appearing as a long line, it can easily be incorporated into your existing network, making sharing and connecting sites around the world simple.

Key Features

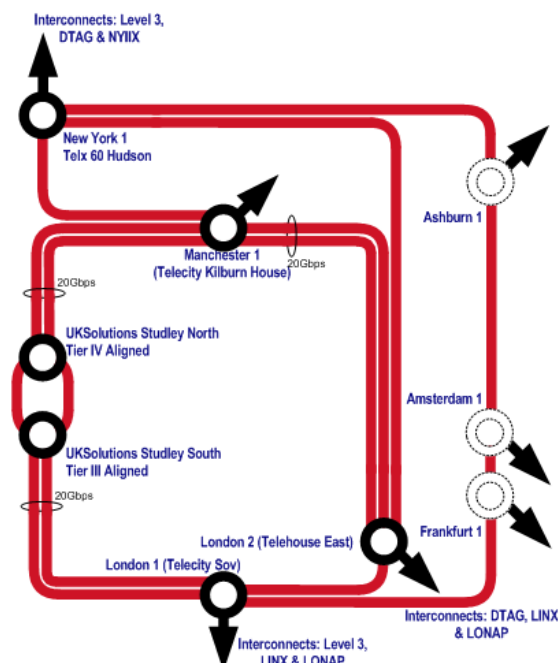
- ▶ **Diverse**
With multiple carriers and redundant routes, the network has been designed for both capacity and stability
- ▶ **Service Level Agreement**
All our Connect solutions offer a single SLA and fast fault restoration times
- ▶ **Enhanced SLA**
Upgraded service level options to provide 99.95% with faster target restore times
- ▶ **Network reach**
We operate globally, using a combination of primary and extended reach locations providing the most effective network outreach possible for our customers
- ▶ **Ability to expand**
We have the ability to expand from 10Mbps to 10Gbps depending on your needs
- ▶ **IPv6**
We are prepared for the IPv4-IPv6 change over and already cater for and run IPv6 capable technology

Product	PoP Locations	Speeds
IP Transit	UKS Studley – North & South Telehouse London Docklands North & East Telecity London Docklands Sovereign House Telecity Manchester Kilburn & Williams House Telx New York 60 Hudson Street	1Mbps up to 10Gbps
Metro Interconnection	Plus Extended Reach PoP's (see next page)	10, 100 and 1,000Mbps

IP Network

Utilising core network locations at major interconnect points around the world, you can be assured of consistent and robust traffic delivery.

Service Level Agreement	
SLA (all Connect products)	99.5%
Enhanced SLA (IPT/Metro only)	99.95% - optional upgrade
Target Time to Restore	8 hours standard SLA, 4 hours Enhanced SLA
Contract Period	1-5 years
Delivery (UKS PoP)	Usually 5 working day from execution of order
Fast Track	Where quicker lead-time is desirable, a Fast Track option may be available



Latency Matrix

Indicative latency statistics from POP to POP on the UKSolutions core and extended reach network.

RTT (ms)	Studley	London	Paris	Amsterdam	Frankfurt	New York	San Jose	Hong Kong	Singapore	Tokyo	Sydney
Studley		4	12	8	16	72	148	216	212	260	332
London	4		8	4	12	68	144	212	208	256	328
Paris	12	8		16	8	84	200	244	212	276	304
Amsterdam	8	4	16		4	80	164	240	216	272	304
Frankfurt	16	12	8	4		80	160	200	196	264	304
New York	72	68	84	80	80		72	228	256	168	288
San Jose	148	144	200	164	160	72		148	184	104	252
Hong Kong	216	212	244	240	200	228	148		32	52	104
Singapore	212	208	212	216	196	256	184	32		68	108
Tokyo	260	256	276	272	264	168	104	52	68		124
Sydney	332	328	304	304	304	288	252	140	108	124	

Extended IP Network

We are able to extend the reach of connectivity services and private interconnections through to the following datacentres located throughout the world.

Asia	Hong Kong	Mega-iAdvantage 399 Chai Wan Road, Chai Wan, Hong Kong City
Asia	Singapore	Equinix 20 Ayer Rajah Crescent, Singapore 139964
Europe	Amsterdam	Sara Science Park 121, 1098 XG, Amsterdam, The Netherlands
Europe	Amsterdam	Telecite Gyrocoopweg 2F, Amsterdam, The Netherlands
Europe	Amsterdam	Nikhef Science Park 105, 1098 XG, Amsterdam, The Netherlands
Europe	Amsterdam	InterXion (Building - 3) Cessnalaan 1, NL-1119 NJ Schiphol-Rijk, P.O Box 58310, NL-1040 HH Amsterdam
Europe	Amsterdam	Telecite 2 Telecite South East, Kuiperbergweg 13, 1101 AE, Amsterdam
Europe	Brussels	InterXion Wezembeekstraat 2, Zaventum, Belgium, 1930 City
Europe	Dublin	Eircom Unit 4050, Kingswood Avenue, CityWest Business Park, Dublin 24
Europe	Dublin	Data Electronics Exchange Centre, 6/7 Kilcarbery, Park Nangor Road, Clondalkin, Dublin 22
Europe	Dublin	InterXion Unit 35, Lavery Avenue, ParkWest Business Park, Dublin 12
Europe	Dublin	Telecite Unit 4027, Kingswood Avenue, CityWest Business Park, Dublin 24
Europe	Frankfurt	InterXion (Building 2) GIP Park, Hanauer Landstrasse 304A, D-60314, Frankfurt am Main, Germany
Europe	Frankfurt	InterXion (Building 1) GIP Park, Hanauer Landstrasse 302, D-60314, Frankfurt am Main, Germany
Europe	Frankfurt	InterXion (Building 4) Weismüllerstr. 19, 60314 Frankfurt am Main, Germany
Europe	London	Telehouse North, North Building, 14 Coriander Avenue, London, E14 2AA
Europe	London	Telehouse East, East Building, 14 Coriander Avenue, London, E14 2AA
Europe	London	InterXion 11 Hanbury Street, London, E1 6QR
Europe	London	Telecite - 6/7 HEX 6-7 Harbour Exchange Square, London, E14 9GE
Europe	London	Telecite - 8/9 HEX 8-9 Harbour Exchange Square, London, E14 9GE
Europe	London	Telecite - Meridian Gate Memaco House, Meridian Gate, 215 Marsh Wall, London, E14 9FJ
Europe	London	Telecite - Sovereign House 227 Marsh Wall, London, E14 9SD
Europe	London	GlobalSwitch 1 East India Dock House, 240 East India Dock Road, London, E14 9YY
Europe	London	Equinix - LD2 - Heathrow Bath Road, Unit 1, Airport Gate, Harmondsworth, West Drayton, UB7 0NA
Europe	London	Equinix - LD3 - Park Royal Matrix 11, 900 Coronation Road, London, NW10 7PH
Europe	London	City Lifeline Lifeline House, 80 Clifton Street, London, EC2A 4HB
Europe	Manchester	Telecite Willams House, Manchester Science Park, Lloyd Street North, Manchester, M15 6SE
Europe	Paris	InterXion 45 Avenue Victor Hugo, 93534 Aubervilliers, Paris
North America	Ashburn	Equinix (Washington Metro) Ashburn G, 44470 Chilum Place, Building 1, Ashburn, VA 20147
North America	Chicago	Equinix 350 E Cermak Rd, Chicago, IL 60616, United States
North America	Dallas	Equinix 1950 N. Stemmons Fwy, Dallas, TX 75207
North America	Los Angeles	One Wilshire 624 S. Grand Ave., 4th Flr, Los Angeles, CA 90017
North America	Miami	Terremark / NAP of the Americas 50 NE 8th Street, Miami, FL 33132-1715
North America	New York	111 8th Avenue 111 8th Avenue, New York, NY10011
North America	New York	60 Hudson - Telx 60 Hudson Street, New York, NY 10013
North America	Palo Alto	Switch & Data 529 Bryant Street, Palo Alto, CA 94301-1704
North America	San Francisco	365 Main 365 Main St, 4th Flr, San Francisco, CA 94105
North America	San Jose	Equinix 11 Great Oaks Blvd, San Jose, CA 95119
North America	San Jose	Market Post Tower 55 South Market Street, San Jose, California 95113
North America	Seattle	Westin Building Sixth & Virginia Properties, 2001 Sixth Avenue, 33rd Flr Seattle, WA 98121
North America	Secaucus	AT&T, 15 Enterprise Ave, Secaucus, NJ 07094

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Data Matters