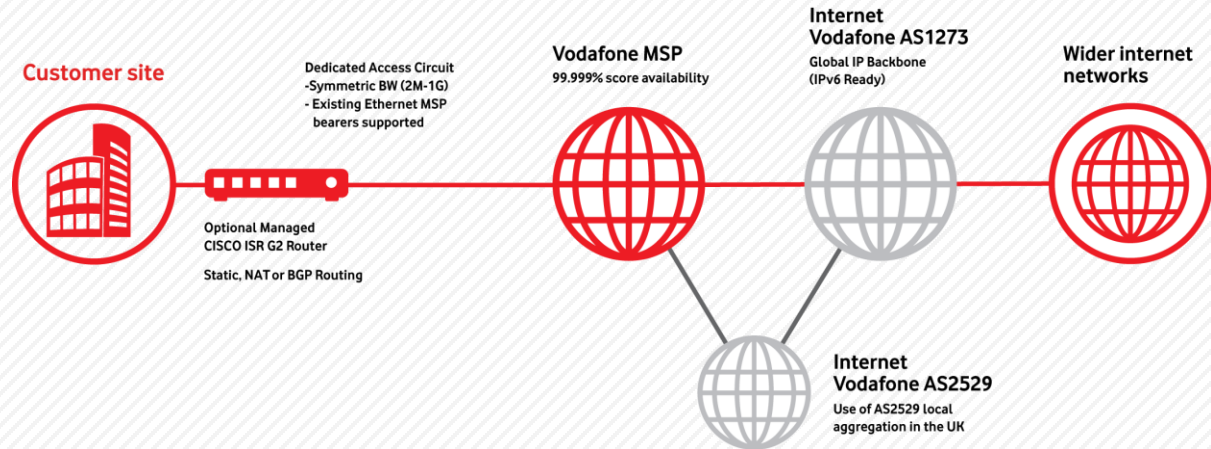# Dedicated Internet Access (DIA)

vodafone

What is Dedicated Internet Access (DIA)?

Vodafone Dedicated Internet Access (DIA) is a fast and reliable service for your business that connects you directly to Vodafone's IP backbone. The service comes with dedicated bandwidth and symmetrical access speeds, making it perfect for website connectivity, business internet use or connecting remote or third party sites.

It works by a Provision of Internet Access directly to the relevant IER (Internet Edge Router) using a point to point Leased Line or Ethernet service. This access method provides greater separation between Dedicated Internet Access services and IP-VPN/Switched Ethernet services utilising the IP-MPLS network, separating network paths and points of presence for multiple access circuits to a single customer location.

Customer site

Dedicated Access Circuit
-Symmetric BW (2M-1G)
- Existing Ethernet MSP bearers supported

Optional Managed CISCO ISR G2 Router

Static, NAT or BGP Routing

Vodafone MSP
99.999% score availability

Internet Vodafone AS1273
Global IP Backbone (IPv6 Ready)

Wider internet networks

Internet Vodafone AS2529
Use of AS2529 local aggregation in the UK

How is DIA different from Broadband and IP-VPN?

Dedicated Internet Access	Internet access dedicated to you, providing a one-to-one service
Broadband	Internet access which is unmanaged and shared with others
IP-VPN	Connecting between multiple sites and the internet and/or cloud, providing premium level quality of service
Ethernet	High bandwidth, low latency, unmanaged access between your sites

Features

Key features

An uncontended service - Dedicated circuits that provide high-speed, always-on and uncontended internet access allowing you to get 100% of the bandwidth you are paying for.

The speed you need - Choose the connection speed that suits your business today, with the opportunity to scale up and a burst option that provides extra bandwidth to meet unexpected peaks in demand.

Keep your connection and data safe - with network security features including Distributed Denial of Service (DDoS) protection, internet proxy services, email security, managed firewalls and resilient service options.

Confidently connected - Business-critical applications stay connected thanks to 24/7 support and service monitoring spotting problems before they start.

Unlimited access - There are no restrictions on monthly usage or additional charges for large files, making it ideal for hosting your own website, managing email efficiency or supporting business-critical applications.

Features

Feature	Sub-feature	Standard	Optional
Access circuit	2, 4, 6, 8, 10, 100, 1000Mbps symmetric bandwidths		✓
Service/port BW	Committed bandwidth options from 2 Mbps to 1000Mbps	✓	
	Committed bandwidth plus burst options from 2Mbps burst to 4Mbps to 500Mbps burst to 1000Mbps		✓
Customer site routers	Range of Cisco ISRG2 routers come fully installed and configured with remote change management and maintenance		✓
Internet features	Domain Name Service transfers/registrations, authoritative DNS, DNS caching, SMTP mail		✓
	IP Address Blocks: Portable and non-transferable IPv4 and IPv6 addresses		✓
	Autonomous System Network numbers registration and routing		✓
	Performance Reporting		✓
Security features	DDOS Protection: reactive and proactive options using share or dedicated cleaning zones		✓
	Dual Homing and Resilient Services		✓
Service support	Proactive monitoring for unavailability and 24/7 incident management	✓	
	Standard change management services	✓	
Technical features	Routing: static, BGP with default route, BGP with full routing table		✓

Benefits (summary)

An uncontended service

Internet access that allows customers to use 100% of the bandwidth they're paying for. Therefore, as the service is not shared by other customers, it allows more constant speeds, even during busy times.

Efficiency

Providing internet access as a network-based service allows multiple sites to consume bandwidth from a central location, sharing the cost of internet access.

Resilience

Providing greater resilience by decentralising internet access and removing the reliance on a single location. Also by opting to connect a site directly to an Internet Edge Router (as opposed to a connection over Vodafone's MPLS network), it provides greater separation between IP-VPN and DIA access into a customer location.

UK Footprint
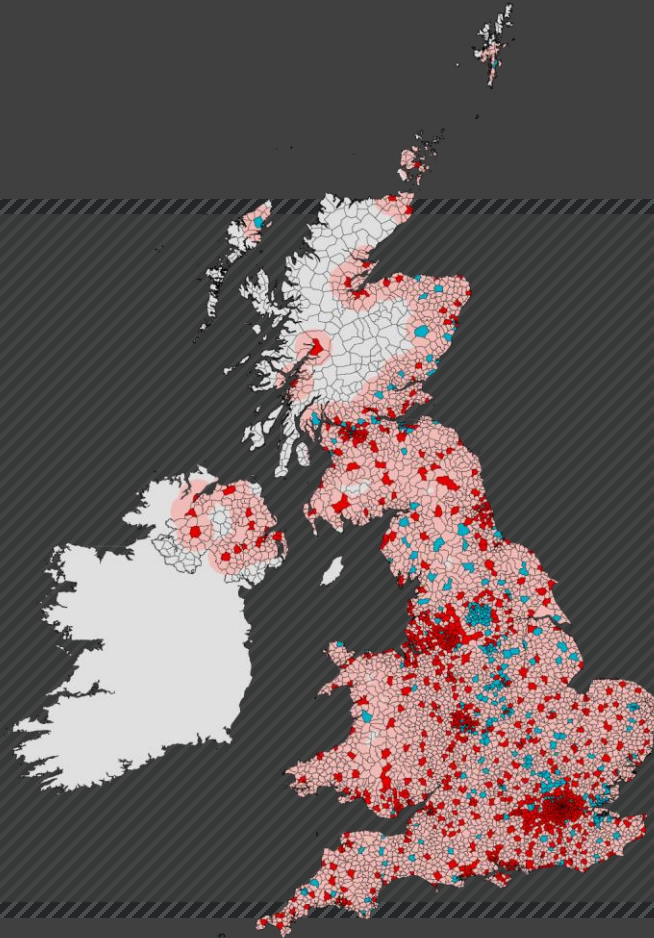
Why Vodafone?

Vodafone is committed to providing our customers with a truly fast, reliable and exceptional service. With Dedicated Internet Access from Vodafone, businesses that have outgrown or have greater demands that cannot be accommodated can benefit from our comprehensive portfolio of Connect, Communicate and Collaborate services. We can help businesses consolidate communications, simplify supplier management and provide tangible cost savings. Vodafone's strong relationship with the IP backbone allows us to be one of the world's most reliable networks, making it simple to tailor Dedicated Internet Access to exactly the way you want it.

Find out more

To learn more about Vodafone Dedicated Internet Access, please contact your Account Manager or call us on 0808 004 4481.

Definitions

- **DIA** = Dedicated Internet Access (committed, symmetrical internet access)
- **Broadband** = Shared bandwidth (non-committed) typically asymmetric (e.g. xDSL)
- **NBIA** = Network Based Internet Access
- **DIAoMSP** = Dedicated Internet Access provided over the MSP Network
- **IP Access** = Legacy IP Transit based product, providing transit + Access Circuit
- **CIG** = Cisco Internet Gateway
- **SNG** = Secure Network Gateway
- **IER** = Internet Edge Router
- **IP Transit** = Wholesale/Large Enterprise solution for internet transit, sold without access circuits from Data Centres/Telehouse's and charged per 1Gbps of traffic
- **AS1273** = Vodafone's Global Internet backbone – over 2TBps of traffic at any time
- **AS6660** = Vodafone's Asia Pacific regional network – open peering policy for local content
- **AS2529** = Vodafone's UK aggregation network – open peering policy for local content