Globalinternet Price and Bandwidth

This fact sheet provides insights into pricing, bandwidth and bandwidth quality for the Globalinternet portfolio. It is part of a series of 9 documents that give a full overview of products and services available.

	Options / attributes	DIA	Broadband
Price	Low cost	N/A	Yes
	Mid (typically low contention)	Option	Option
	Higher cost	Yes	N/A
Bandwidth	Low (<10M)	Yes – min 512K	Yes – min 512K
	Medium (>10 <100M)	Yes	Yes
	High (>100M <1G)	Yes	Limited
	Very High (1G+)	Yes	N/A
	Symmetric/Asymmetric	Symmetric standard	Asymmetric
	Middle mile / international	Option	Option
Bandwidth quality	Dedicated (1:1)	Yes (min. 90% throughput)	N/A
	Shared - low contention (<4:1)	Limited options	Limited options
	Shared - standard contention	N/A	Yes
	Packet loss (local internet)	Expected target ~0%	Expected target ~0%
	Availability	Expected target 99.9%	Expected target 99%
	MTU size 1500 guaranteed	No	No

Key Points

Multiple factors determine the price of an internet service and this results in a wide spread of 'cost per megabit' which must be understood when making buying decisions.

Service type	Service is available in 2 basic formats: Internet Access - Broadband: Bandwidth is shared across multiple customers – normally highly shared meaning throughput speeds will vary. Internet Access – Dedicated (DIA): Service that will deliver the quoted headline bandwidth throughput to the local internet.
Price	Does the site requirement prioritise price above everything – or is performance critical - or does a balance of price & performance need to be explored?

Bandwidth	How much is required (speed & data allowance), what is the minimum requirement? Symmetrical on non-symmetrical needs?
Bandwidth quality	Does the bandwidth need to be guaranteed, are there specifications for latency, jitter & packet loss?
Service levels	What break-fix response is required?
Middle Mile	Is high quality international or specific cloud site connectivity required?
IP configuration	Are static IPs and subnets required, BGP routing?
Resilience	Are there any requirements for resilience, separacy or diversity?

Globalinternet

Globalinternet price insights
Broadband

Many customers are looking for low-cost internet connectivity for branch or smaller sites. Typically, this means a broadband solution is required. Broadband access technologies are described in Globalinternet product fact sheet 5. Broadband internet is available at many price points depending on the quality & configuration:

Lower cost: Globalinternet normally offers business oriented broadband products that offer a higher level of service than pure consumer offerings. Service generally will support static IPs and may offer enhanced service & bandwidth performance over consumer level products. The additional service wrap and features of these products for a moderate premium make them the normal best choice where broadband is required for business connectivity. Bandwidth performance from these services will vary with network load and the headline speed will not always be achieved.

Mid cost: Some local providers offer premium broadband options that through lower levels of sharing (contention) on the network. These products normally command a significant premium over standard broadband products and should be compared to DIA (dedicated) options that may offer a better solution for a similar price.

Higher cost: Broadband is not normally a higher cost / quality option.

Note: actual costs vary widely by country so specific price points for low -> high do not exist – it is easy to see what options are available for a particular location by visiting www.globalinter.net.

<u>Critical point – Availability</u>: Broadband is normally deployed in areas of high consumer residence and may not be available in business districts, on high-streets or in remote areas. Availability checks are important to assure services are available – if not then more expensive DIA options or lower performing mobile or wireless options are likely to be the only solutions. are likely to be the only solutions.

Globalinternet bandwidth insights Broadband

Broadband is now available globally in a very wide spread of bandwidth speeds. Note that it is not the headline speed of the service that predominantly drives the price – low/mid/high pricing options are typically set independently of the speed.

Low bandwidth (<10M): Early generation broadband technologies like ADSL – quoted speeds may be 24M however actual throughput will be much less than this and will vary widely by location. Not normally suited to business internet connectivity other than as a basic backup or for low-speed undemanding applications.

Medium bandwidth (10M-100M): This is the current sweet -spot for broadband with technologies like VDSL & cable being widely available. Most premises will see connectivity of at least 20M download and 10M upload. Also, as these services have been primarily built to support highly demanding multimedia applications their performance for businesses is normally very good.
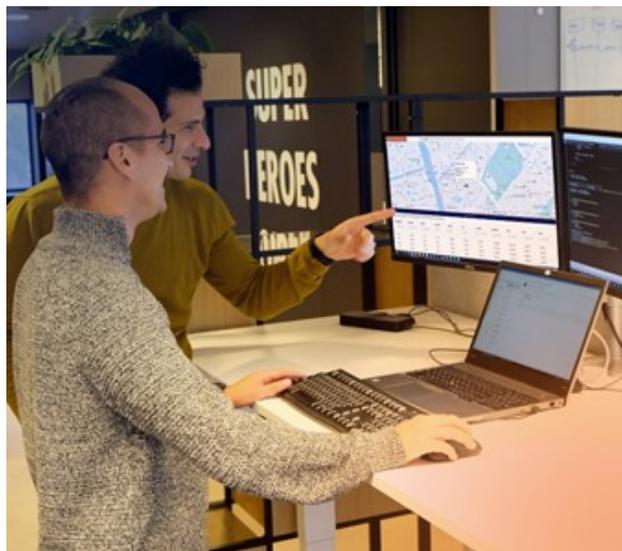
High bandwidth (100M-1G): Pure fibre based broadband networks are becoming more widely available, but

availability is still highly limited in most countries. These can support speeds of up to 1G (& occasionally beyond) and minimum throughput guarantees of e.g. 50M can sometimes be achieved. They are an excellent option when available.

Very high bandwidth (1G+): Broadband is not a suitable option for sites that require very high throughputs – these require DIA.

Globalinternet price insights DIA

Dedicated internet access (DIA) is a high-quality service that is normally guaranteed to offer the contracted bandwidth throughput. It is usually delivered as a fibre ethernet connection but lower cost options such as copper ethernet are available and fixed wireless can be used for remote locations.

Lower cost: DIA is not a lowest cost option – see broadband.

Mid cost: DIA is sometimes offered over lower cost access such as copper ethernet (EFM) and from some local providers is available with shared bandwidth over low-contention networks (e.g. 4:1). These shared services will normally offer throughput at or very near the contracted rate but will occasionally dip below this – but will always achieve a minimum throughput. Pricing should be compared to similar broadband options where available.

Higher cost: DIA is available in a very wide range of configurations and bandwidths up to 10G+. Multiple IP configuration, offnet connectivity & resilience options are available to meet the specific needs of the customer application. Pricing varies widely with the bandwidth and configuration required.

Note: actual costs vary widely by country so specific price points for low -> high do not exist – it is easy to see what options are available for a particular location by visiting globalinter.net.

Critical point – Availability: As DIA is built on dedicated business grade infrastructure it's availability to businesses is much more predictable and reliable. For high speed services local suppliers are normally willing to build infrastructure to new sites however this can add significantly to the cost and lead time.

Globalinternet bandwidth insights DIA

DIA is available in bandwidths from 1M or below to 10G or above. Pricing is primarily driven by the bandwidth contracted.

Low bandwidth (<10M): Sub 10M DIA is a good solution for sites with low absolute bandwidth needs but high requirements for bandwidth quality/performance - typically real-time delay sensitive applications (such as voice). Also used where broadband is not available as a lowest cost alternative solution.

Medium bandwidth (10M-100M): DIA is widely available in these speeds – it can be worth checking for pricing offers as it is not uncommon for 10M to be cheaper than <10M and for upgrades between 10M & 100M to be achieved for very little premium.

High bandwidth (100M-1G) & Very high bandwidth (1-10G+): High quality exclusively fibre delivered services - in addition to bandwidth the key driver for cost here is any resilience requirement – see Globalinternet fact sheet 5.

International Connectivity / Middle Mile

Internet access services provided by Globalinternet offer great local internet connectivity. In most major markets with extensive global peering and local cloud capabilities there are few if any limits applied by ISPs to international connectivity.

In a few smaller markets however where connectivity is limited additional fees or limits may apply for international traffic that is typical of the needs of Globalinternet's customers – a list of these restrictions is available on request.

Where international connectivity is critical Globalinternet offers an assured 'middle mile' service as an optional extra – enabling MPLS like levels of stability & guaranteed throughput.

Let's Talk!

At Globalinternet, we want to help you to take full control over your internet without having to deal with the complexity of sourcing multiple Internet Service Providers.

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