

# Global Internet



Avoid the crowds. It can be hard to get the Internet performance you need when you share space with 1.5 billion others.

The public Internet is a heavily crowded environment. There are at least 1.5 billion\* Internet users in the world today and they have created more information in the last three years than in the last three hundred thousand\*\*. With this congestion, using the Internet to connect people and offices can result in unacceptable variations in availability, quality and user experience. This problem is often compounded by a lack of visibility into site-to-site performance, hindering the ability to measure and improve. Telstra's Global Internet services provide dedicated, robust and secure access to a single network, as well as access to 24/7 monitoring and customer service capabilities.

## Benefits:

### Optimal performance and efficiency

By consolidating your services with a single supplier, you can minimise complexity and increase efficiency. Telstra streamlines access management to multiple global locations by providing dedicated connectivity, a wide variety of DSL speeds and up to 1 Gbps connection speeds for Ethernet. Telstra also uses multiple routing options over its network to deliver low latency and optimised performance.

### Global flexibility and scalability

It is impossible to be everywhere, so Telstra has assembled world leading peering arrangements to minimise the total number of data hops required. We offer access to over 4.6 Gbps of private peering across Asia, over 55.7 Gbps in the US and more than 22.4 Gbps in major network access points around the world. In this way, Telstra provides its customers with the scalability and flexibility that they require.

### A quality experience for users

Telstra has interests in over 50 cable systems and integrates multiple landing points and core router sites to ensure a solid, diverse and redundant network. We are committed to delivering a quality experience for users – and we achieve this goal thanks to our consistent network architecture, IP backbone diversity, 24/7 multi-lingual customer service, our customer performance management portal and a strong focus on service level agreements.

### Balanced capacity, capability and costs

Depending on the scale, location and criticality of services, Telstra's Global Internet service can enable cost-effective and secure access for remote sites joining into an IP Virtual Private Network (VPN) or can act as an integrated IP VPN back-up. This expands your options and allows you to balance capacity, capability and costs accordingly.

## Features summary:

- Global IP backbone**  
 Provides more than 120 Gbps of cable-based core capacity with 24/7 surveillance and monitoring
- A rapid Internet gateway to mainland China and Taiwan**  
 Offers approximately 2 Gbps of capacity from Hong Kong
- Trans-Pacific and trans-Atlantic diversely routed IP Backbone**  
 Delivers over 72.8 Gbps trans-Pacific and 4.9 Gbps trans-Atlantic capacity on fibre cable with no dependency on satellite
- High capacity international connections**  
 Connect Telstra's IP points of presence in Australia, Hong Kong, Japan, Taiwan, the US, Europe, the Middle East and Africa
- Three major US hubs**  
 Located in Silicon Valley, Los Angeles and New York
- Gigabit Ethernet connections**  
 Available in Europe, the Middle East and Africa, including the London Internet Exchange
- A wide range of connectivity options depending on the location of the site**  
 Includes DSL, cable, satellite, wireless and a dedicated access at the following speeds: fractional T-1/E-1, T-1/E-1 to OC-3/STM-1, OC-12/STM-4, ATM and Fast Gigabit Ethernet

### A choice of flexible services

Businesses that want to connect, communicate and collaborate via the Internet need flexible and scalable solutions. That's why Telstra offers its Global Internet service in multiple formats:

#### Telstra Global Internet Direct

- Dedicated, un-contended Internet bandwidth. Ideal when differentiation of mission critical traffic is required

#### Telstra Global Internet Direct Economy

- A cost effective option for corporate customers who need to operate applications that are less sensitive to delays, such as email and web browsing

#### Telstra Global Internet Extension

- Expanded IP coverage in over 200 countries via a wide range of access options, providing a comprehensive and cost effective option for back-up or remote site connectivity

\* <http://www.internetworldstats.com/stats.htm>

\*\* <http://www2.sims.berkeley.edu/research/projects/how-much-info-2003/>

### Optional and premium features available with Telstra's Global Internet services include:

- Customer premise equipment, including managed router service
- Email security, including anti-spam and content filtering
- DSL connectivity widely available for cost effective remote site connection into IP VPN or IP VPN back-up
- Automatic active-passive back-up using DSL or second dedicated circuit
- Fully resilient active-passive or active-active solution utilising two dedicated circuits or diversity routed fibre
- Black hole routing to mitigate the risk and impact of third party initiated Distributed Denial of Service (DDoS) attacks