

Private Backbone Global Content Base

Pacnet IP Transit NETWORK

Internet traffic today has become increasingly complex. It carries not just dynamic web pages and High-Definition video, but a variety of user-generated content, which increases the volume of upstream traffic. From desktop and laptops, upstream traffic is now created from various mobile endpoints including mobile phones, netbooks, tablet PCs and other handheld devices.

With the predicted advent of Web 3.0, characterized by access and creation of highly-personalized content, Internet Service Providers (ISPs), Internet Content Providers (ICPs), Content Delivery Network (CDN) operators and mobile operators need to ensure that content and applications are delivered on time and with the highest level of quality that meets – and even exceeds – end-users' expectations.

Internet traffic will continue to grow and Asia is leading the way. Researchers* foresee that Internet users around the world will upload and download some 1.2 million petabytes of data per year by 2015. Asia will account for 42% of this traffic as more and more people from developing economies, including India and China, go online.

Pacnet provides ISPs, ICPs, CDNs and mobile operators with a robust global Internet backbone to help them generate revenue from content and delight their customers with an immersive digital experience.

Strong In Asia

Pacnet owns one of the largest IP backbones in Asia connecting the region's biggest markets through its EAC-C2C intra-Asia subsea network, reaching across the United States via EAC Pacific, its trans-Pacific network linking Japan to the US.

Pacnet's powerful, low-latency network, one of the few to offer visibility across all network layers, has built a solid reputation for reliability having proven its resiliency during major natural disasters that damaged subsea cable networks and disrupted Internet connectivity around the world. Having quickly restored its network, Pacnet has efficiently assisted other subsea cable operators to get back online and continue to serve their customers. Its excellence in wholesale service delivery has earned for the company numerous industry recognitions including Wholesale Operator of the Year at the inaugural Asia Communication Awards 2011.

Leveraging its robust global IP network, strong top-level upstream partnership and extensive peering arrangements with some of the world's largest ISPs, Pacnet enables the speedy delivery of content through a low-latency, one-hop access to all major Internet destinations. With a network that carries over 400G of content and eyeballs or page impressions, Pacnet IP Transit offers limitless opportunity to tap a global Internet audience. This is proven by Pacnet's high ranking in The Cooperative Association for Internet Data Analysis (CAIDA) Autonomous Systems (AS) hierarchy, which determines an ISP's ability to connect to all destinations on the Internet.

With multiple routing options, multi-tier deployment options and charging models, Pacnet IP Transit caters to the varying Internet transit requirements, helping customers to enhance their profitability by maximizing their transport cost as they deliver rich digital content and outstanding user experience.

* Source: Informa Telecoms & Media

Private Backbone Worldwide Content Base

TECHNICAL DESCRIPTION

Service Options

- **Premium IP Transit** – High-availability and low-latency transit offered with fixed or burstable bandwidth options and a flexible pricing model that allows you to make the most of your bandwidth and benefit from stringent Service Level Agreements.
- **Country-Specific Route** – Provides the shortest paths and lowest latency routes to and from a specific country or region with guaranteed performance. Offers pioneering direct routes to China, Taiwan and Europe (via low-latency West-bound Europe route).

Service Features

Secondary Domain Name Server – A value-added feature which allows customers to match computer IP address numbers with Internet IDs for easy visibility on the Internet.

BGP 4 Routing – Connects the customer's Autonomous Systems (i.e., IP network) via optional Border Gateway Protocol (BGP version 4) to facilitate easy routing with other ISPs.

IPv4/IPv6 Dual Stack – Addresses issues related to the depletion of IPv4 addresses by having both IPv4 and IPv6 traffic run simultaneously over the same port.

10G Access – Delivered via high-speed Nx10G backbone covering most of Pacnet's PoPs in Asia and the US.

Distributed Denial of Service (DDoS) Attack Mitigation

- **Blackhole** – A free service which enables customers to block their assigned IP addresses and halt malicious network attacks.
- **CleanPipe** – Subscription-based advanced traffic filtering for customers with more demanding security requirements.

Network Management Tool

Insight@Pacnet Network Snapshot – A web-based tool that provides real-time reports on traffic utilization, availability, traffic volume and latency.

Service Availability

	Australia	Hong Kong	Japan	Korea	Malaysia	New Zealand	Philippines	Singapore	Taiwan	United States	Europe
DS3	●	●	●	●	●	●	●	●	●	●	●
Fast Ethernet	●	●	●	●	●	●	●	●	●	●	●
STM-1/OC-3	●	●	●	●	●	●	●	●	●	●	
STM-4/OC-12	●	●	●	●	●	●	●	●	●	●	
Gigabit Ethernet	●	●	●	●	●	●	●	●	●	●	
10 Gigabit Ethernet	●	●	●		●	●		●	●		
Country-Specific Route	●	●	●		●			●			
Blackhole DDoS Mitigation	●	●	●	●	●	●	●	●	●	●	●
CleanPipe DDoS Mitigation		●	●	●	●		●	●	●		

Note: All products are subject to availability. Please check for product availability with your Pacnet representative. Pacnet reserves the right to change product features with or without notice.