

The State of CDN

definition

Content
Delivery
Network

A Content Delivery Network (CDN) is a system of computers containing copies of data placed at various nodes of a network. When properly designed and implemented, a CDN can improve access to the data it caches by increasing bandwidth, providing redundancy and reducing latency.



fact
1,206,138

Websites across the Internet use a CDN
<http://trends.builtwith.com>

uses

- ★ media delivery
- ★ large file delivery
- ★ website delivery



drivers

★ Global Internet traffic is expected to grow by 400% by 2015.*



X400%

★ By 2015, one million video minutes-which would run 694 days-will traverse the Net every second.*

1,000,000
 video minutes
 every second



*www.streamingmedia.com: Cisco, RealNetworks, Adobe, Harmonic: Adaptive Streaming and HTTP

★ Sixty-three percent of organizations cited 'the need to improve customer satisfaction' as their top driver for adopting Web Performance Optimization (WPO) solutions. **63%**

Source: Aberdeen Group

★ Denial of Service attacks account for the largest percentage (32%) of attack methods used by hackers. CDN reduces the effect of attacks



ThrustWave :The Web Hacking Incident Database Semiannual Report July to December 2010

benefits

speed



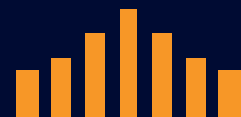
geographic diversity



capacity



scale



security



reasons to use a CDN

- ★ Never get slashdotted again
- ★ Protect your site from Denial of Service attacks
- ★ Support new markets for your products, services and information
- ★ Reduce infrastructure costs
- ★ Make page turns faster for a consistent user experience



results

5x faster

CDN delivery is at least 5x faster than no-cache and origin delivery.

Measuring a Commercial Content Delivery Network
 Sipat Triukose, Zihua Wen, Michael Rabinovich

100% uptime

Since a CDN has geographic diversity with nodes spread all over the world, traffic can be easily re-routed in the event of an outage.