

Download Acceleration

Data Sheet



Introduction

The network bottleneck sticks out with the development of website service. The connectivity, network congestion and network bottleneck issues that network operators faced have given rise to the slow download of software and application. Users have unstable download experience, and often file complaints, bothering website operators a lot. Besides, illegal hijacking and hotlinking issues occur now and then.

Download Acceleration

To solve the dilemma that the better user experience is achieved without incurring more costs, CDNetworks independently researches and develops download acceleration product to break the bottleneck that besets website content providers in development. The product owns multiple anti-hijacking strategies and anti-hotlinking methods, possesses huge redundant bandwidth resources to cope with hotlinking and frequent access bursts, and provides high-quality user experience with low investment from customer.

How It Works

The Download Acceleration product redirects the users download request through CDNetworks intelligent load balancing system to the optimum edge nodes where users can download the content; it prefetches file to CDNetworks nodes by using content management system to avoid the latency in the first file retrieving, meet the need of high concurrency and bypass the congested route in network. Thus, end users will realize fast access, high-speed download, and enjoy better website service, and the origin pressure is eased in the meantime.



Key Features and Benefits

Feature	Description	Benefit
NGB Scheduling	"New Global Balancer" scheduling, use real IP of users to judge the location.	Get the best edge node and best service quality.
Private Download Protocol	Adjust the internal transmission protocol to get a better transmission efficiency.	Download speed is raised by 3-40 times compared with traditional transmission protocol.
Anti-Hijacking & Access Control	Offer several methods to solve hijacking problems, such as HTTP DNS for DNS hijacking, dynamic characteristic value verification, file consistency verification and MD5 horizontal verification across platforms for content hijacking.	Reduce the unnecessary bandwidth waste, control cost and provide a better user experience.
File Prefetching	Prefetch the file to CDN platform before launching or delivering firmware or game update.	Higher speed, better user experience, and less pressure on the origin site.
Anti-Hotlinking	Support all the anti-hotlinking methods such as IP blacklist/whitelist, referrer, cookies, UA, timestamp and back-to-origin authentication.	Implement access control, reduce bandwidth and save cost.
Download Speed Control	Set the limit on overall bandwidth of domain name with threshold.	Reduce bandwidth and save cost.

About CDNetworks

CDNetworks is a global content delivery network (CDN) with fully integrated Cloud Security DDoS protection and web application firewall. Our mission is to transform the Internet into a secure, reliable, scalable, and high-performing Application Delivery Network. CDNetworks accelerates more than 40,000 websites and cloud services over a network of 1500+ global PoPs in established and emerging markets including China and Russia. We have been serving enterprise customers for 15 years across industries such as gaming, finance, e-commerce, high tech, manufacturing, and media. CDNetworks offices are located in the U.S., UK, South Korea, China, Japan, and Singapore. For more information, please visit: www.cdnetworks.com.