



CHANGING THE WAY
WE CONNECT GLOBALLY



Who is CDS Global Cloud ? Listed in NEEQ stock market in China, CDS Global Cloud, a Capitalonline company is a fast-developing IaaS provider with data centers operating in the United States, China, Germany, Hong Kong, Taiwan, Japan, Singapore, the UAE, the Netherlands and South Korea, we continue to add our Point of Presence (PoP) at a very fast pace worldwide. Check out more PoPs coming soon on our website.



Pairing premium quality internet connections with the highly reliable public cloud platform, CDS stands out in providing premium services for enterprises with a global footprint. Our network AS63199 is widely peered with over 1000 ISPs worldwide. AS38353 inside mainland China is peered directly with all 4 nationwide carriers providing 4-Line BGP services to all China locations.

Specializing in GPN, or Global Private Networks that provide low latency, zero downtime and zero packet loss, CDS Global Cloud allows you to launch proxy acceleration services in hours, complete GB files transfer in seconds, deploy SD-WAN services to connect all your office locations with no long-term contracts.

CDS global is the leading ISP and IDC operator in China, CDS Global Cloud provides comprehensive hosting options for enterprise customers from startups to Fortune 500 giants.

Products Provided:

- CDS's Global Private Network
- Enterprise-level Cloud hosting
- Internet Options for China
- GIC Storage System
- Content Delivery Network

Who is the audience?

CDS Global Cloud beats competitors by providing optimum LAN performance and maximum network speed for global enterprises and companies with an international footprint. A cost-effective answer for transferring large quantities of data, when using high-performance applications, or answer business - fluctuations.

What is the problems we are solving?

- Low Latency
- SEO Rankings and overall visibility
- Loss of connectivity to 3rd party support systems such as CRMs
- Overall Connectivity

What is the solution we are providing?

- ✓ Our GPN data transmission is rapid and reliable! Solving issues with low **latency**.

Latency Chart (ms)

	CHINA				APEC				EU			U.S.A		ME
	Beijing	Wuxi	Shanghai	GUANGZHOU	SINGAPORE	TOKYO	TAIPEI	HK	FRANKFURT	AMS	LA	DALLAS	NYC	DUBAI
Beijing		25-30	30-35	35-40	75-80	55-60	60-65	35-40	140-145	145-150	175-180	195-200	235-240	170-175
Wuxi	25-30		5-10	35-40	95-100	30-35	65-70	60-65	170-175	175-180	150-155	175-180	210-215	165-170
Shanghai	30-35	5-10		30-35	95-100	30-35	60-65	65-70	175-180	180-185	150-155	170-175	210-215	165-170
Guangzhou	35-40	35-40	30-35		40-45	65-70	25-30	5-10	185-190	190-195	155-160	205-210	210-215	130-135
Singapore	75-80	95-100	95-100	40-45		65-70	55-60	35-40	185-190	195-200	185-190	205-210	245-250	95-100
Tokyo	55-60	30-35	30-35	65-70	65-70		35-40	60-65	255-260	260-265	120-125	140-145	180-185	160-165
Taipei	60-65	65-70	60-65	25-30	55-60	35-40		25-30	235-240	260-265	155-160	175-180	210-215	150-155
Hong Kong	35-40	60-65	65-70	5-10	35-40	60-65	25-30		220-225	235-240	145-150	195-200	235-240	130-135
Frankfurt	140-145	170-175	175-180	185-190	185-190	255-260	235-240	220-225		5-10	150-155	115-120	80-85	130-135
Amsterdam	145-150	175-180	180-185	190-195	195-200	260-265	260-265	235-240	5-10		155-160	120-125	70-75	140-155
Los Angeles	175-180	150-155	150-155	155-160	185-190	120-125	155-160	145-150	150-155	155-160		40-45	70-75	275-280
Dallas	195-200	175-180	170-175	205-210	205-210	140-145	175-180	195-200	115-120	120-125	40-45		35-40	260-265
New York	235-240	210-215	210-215	210-215	245-250	180-185	210-215	235-240	80-85	70-75	70-75	35-40		220-225
Dubai	170-175	165-170	165-170	130-135	95-100	160-165	150-155	130-135	130-135	140-155	275-280	260-265	220-225	

- ✓ Mirror Hosting –
When page loading time and SEO are critical, Mirror Hosting is the answer. Mirror Hosting significantly increases website performance and user experience by providing: Page Load Times < 3 seconds Local IP addresses
The result? SEO rankings by Chinese search engines such as Baidu are greatly improved creating greater visibility and allowing foreign sites to compete with: No redesign of websites. No loss of

connectivity to 3rd party support systems such as CRMs. Complete compatibility with Google fonts and analytics.

- ✓ V-IEPL – The answer for customers needing fast, secure, point-to-point connectivity to mainland China. Perfect for developers, V-IEPL requires local representation in China, but no ICP Registration Number. Like VPN, CDS' V-IEPL offers fast, reliable connectivity from anywhere in the world to mainland China.

Benefits for V-IEPL:

- Fast, easy deployment
- Flexible and easily expands as business needs grow
- Lower capital and operational expenses
- Highly reliable
- Data encryption applicable

CDS currently offers V-IEPL services in over 16 data centers around the world including Beijing, Wuxi, Guangzhou, Shanghai, Singapore, Tokyo, Hong Kong, Taiwan, Frankfurt, Amsterdam, Dubai, Dallas, New York, and Los Angeles.

How does CDS Global Cloud stand out against the competitors?

CDS Global Cloud beats competitors by providing optimum LAN performance and maximum network speed for global enterprises and companies with an international footprint.

Our Global Private Network (GPN) provides customers with reliable LAN connections to their multiple sites without regard to physical location. GPN connections are made possible by a high-performance redundancy ring architecture developed by exclusively by CDS over a number of years. With GPN your data flows securely among our cloud nodes worldwide providing you with all the benefits of cloud computing in an instant. The SLA uptime of the CDS network is 99.9% and every CDS Data Center is always connected with more than one Tier I carrier to provide the highest in fault tolerance. CDS interconnects are through Layer 2 Private networks, delivering flexible cloud-connectivity seamlessly.

CDS Global Cloud High-Speed Content Delivery Network (CDN) in Mainland China

Key Capabilities

- 99.99% reliability guaranteed by SLA
- Burstable bandwidth (95th percentile billing)
- 1GigE, 10GigE, 100GigE
- IPv4/IPv6 dual stack with full feature parity between IPv4 and IPv6
- Blackhole capabilities for enhanced security
- Low latency routes
- BGP – included at no charge
- IPv6 and IPv4 on the same connection – included at no charge
- Single AS worldwide – for simple global routing, provisioning, and service/li>

Highlights

- ✓ **Less expensive and very cost effective**
- ✓ **More secure - supports HTTPS, Anti-Link Hijacking, and AK/SK keys**
- ✓ **fast content delivery deployment**
- ✓ **Less expensive hardware**
- ✓ **Accessibility to remote location due to bandwidth availability**
- ✓ **Less initial investment, more long-term savings over time**
- ✓ **No long-term contracts**

The Challenge: Traditional MPLS and Data Storage

According market analysis, China's cloud shift rate will increase to 20.7% in 2021, as Infrastructure-as-a-service (IaaS) continues its growth. CDS Global is quickly becoming the leading IaaS provider with data centers throughout US, Europe and Asia. CDS specializes in providing solution to companies with an international footprint.

The challenge for many enterprises regarding whether to use MPLS or SD-WAN all comes down a matter of cost, reliability and security. Providing the proper object storage systems allows for seamless network connectivity and performance. The traditional methods of data storage usually led to more time spent by finding and choosing vendor, costly equipment testing and installation both processes could lead to spending millions before launch.

Other issues like higher cost due to connectivity issues, inflexibility, and as the business grows the storage wouldn't grow with it leading to eventually spending more on expanding or replacing the storage system. These problems would eventually result in an extremely low ROI for many enterprises and corporations and higher costs in the long-term.

The Solution: CDS Global Cloud's GSS and SD-WAN

CDS Global Cloud's Global Interconnected Cloud (GIC) Storage Services adopted from the Hitachi Content Platform (HCP) provides high reliability, availability, scalability, flexibility, and security. GSS is a fast, cost-effective way to archive and retrieve data anywhere, anytime from any device.

The Platform:

As a serverless service, GSS allows user to access the storage via URL or API. GSS is perfect as an affordable storage for data mining, active or cold archiving, data backup, recovery protection or disaster recovery.

- ✓ High Reliability
- ✓ Massive scale
- ✓ Multiple storage tiers
- ✓ Provides broad protocol support

Compatibility:

The GSS interface is fully compatible with Amazon S3 and OpenStack Swift. This technology permits seamless WAN and LAN access to all new as well as existing Web 2.0 and mobile applications. Also, easy migration from S3 to GSS.

Security:

GSS Supports Hypertext Transfer Protocol Secure, more commonly known as HTTPS. This type of security measure gives users to ease of mind of not having to worry about man-in-the-middle attacks, personal eavesdropping and other forms of cyber attacks that can hinder or compromise user safety.

Anti-Link Hijacking is also supported by GSS. This measure prevents browser and affiliate link hijacks.

Fast and Optimum Performance through CDN Acceleration:

Many network providers forget the importance of CDN and its benefits. GSS supports Content Delivery Network (CDN) Acceleration, allowing websites and its content to remain online through network and hardware failures. CDN servers geographically distributed

grouped together to provide fast delivery of internet content. This prevents unnecessary downtime and allow a company to operate seamlessly without encountering problem that could be potentially damaging.

CDS Global Cloud's Service in Action

Internet connectivity in China

CDS offers Internet accessibility with direct BGP peering to all four Tier 1 carriers in mainland China as well as all local carriers assuring the best and fastest coverage nationwide.

If you are unfamiliar with China's Internet you may wonder why BGP peering matters. The Internet infrastructure in China is very different than in the rest of the world. In China, there are only four major providers: China Telecom, China Unicom, China Netcom and Education Net (CERNET). Despite the enormous demands made by cross-network tra-c, these four networks are connected to each other by only three primary access points rather than a full mesh topology like the rest of the world. Due to the limited bandwidth at these access points, cross-network tra-c often experiences substantial delays. Without multi-line BGP, even local Internet tra-c would have to go through an access point which might be thousands of miles away. Over the last 15 years, CDS has developed direct peering agreements with all Tier 1 providers and the local carriers assuring direct connections between carriers. For example, a China Unicom user can ping a server in the same city on CERNET, and experience up to a 400ms delay. The data must travel on the China Unicom AS to the connecting node which might be a thousand miles away to access CERNET, then travel back on the CERNET sub-network to the server. With multi-line BGP, the same ping would only take 20-30ms.

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I'm amazed. Just few mouse clicks and voila! Our deployment across the Pacific is done! It's really easy with CDS Cloud.” - Ke Yu, Director of IT,

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Citations

Zeng, Evan, et al. "Market Guide for Cloud Infrastructure as a Service, China." *Hype Cycle Research Methodology | Gartner Inc.*, Gartner, Inc., 26 Mar. 2018, www.gartner.com/doc/3869865/market-guide-cloud-infrastructure-service.

"The Primary Benefits of SD-WAN Technology." *SDxCentral*, SDxCentral, www.sdxcentral.com/sd-wan/definitions/sd-wan-technology/?c_action=sidebar.

"4 Problems with Traditional Methods of Data Storage." *Zadara*, 18 July 2016, www.zadarastorage.com/blog/industry-insights/4-problems-traditional-methods-data-storage/.

"What Is HTTPS (HTTP over SSL or HTTP Secure)? - Definition from WhatIs.com." *SearchSoftwareQuality*, TechTarget, searchsoftwarequality.techtarget.com/definition/HTTPS.

"What Is a CDN? How Does a CDN Work?" *Cloudflare*, www.cloudflare.com/learning/cdn/what-is-a-cdn/.

"Global Private Network." *Global Private Network*, CDS Global Cloud, new.cdsglobalcloud.com/wp-content/uploads/2018/03/Global-Private-Network.pdf.

"Internet vs. Global Private Networks: Crunching the Numbers on SD-WAN Reliability and Speed." *Aryaka*, 17 Nov. 2017, www.aryaka.com/blog/internet-vs-global-private-network/.

[file:///C:/Users/Lola/Downloads/smartcdn-web-app-acceleration-solution-brief%20\(1\).pdf](file:///C:/Users/Lola/Downloads/smartcdn-web-app-acceleration-solution-brief%20(1).pdf)

"Internet Options for China." *Internet Options for China*, new.cdsglobalcloud.com/wp-content/uploads/2018/03/Internet-Options-for-China.pdf.

"Global Private Network – CDS Global Cloud." *CDS Global Cloud*, www.cdsglobalcloud.com/products/global-private-network-gpn/.

<http://new.cdsglobalcloud.com/wp-content/uploads/2018/03/GSS-%E2%80%93-GIC-Storage-Services.pdf>

"NetEx – CDS Global Cloud." *CDS Global Cloud*, www.cdsglobalcloud.com/netex/.