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Ching unicom中国联通 Innovating Your World

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Overview





Internet of Things



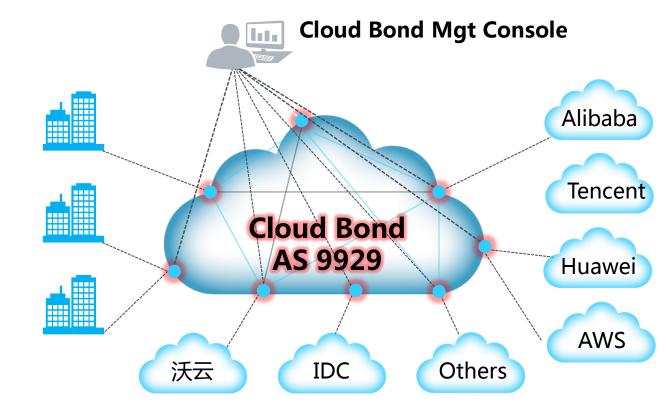




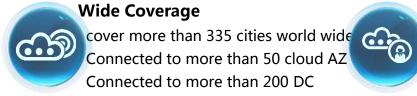
China Unicom Cloud Bond



- SDN based technology ready to provide cloud access and multi-cloud connect service for ISP and cloud customers.
- Address customer networking requirement between DC, cloud environment and office.
- Advanced features include on-demand bandwidth, online service, prompt deployment, security and reliability







On-line self deployment Global united operation & sup Flexible pay-as-you-go billing

Secure, reliable, low latency
QoS SLA



Cloud & Network Integration Connectivity





More than 335 cities world wide Business Office: connect on-demand



China Unicom IDC Tier 3 and Tier 3+ DC: 200+



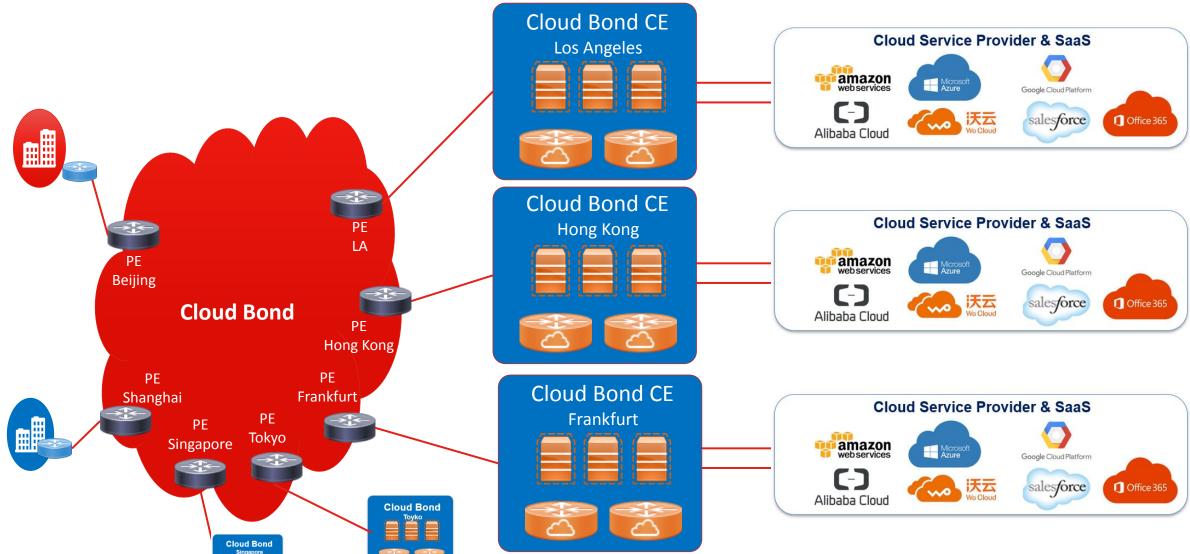
Major Cloud Providers in China and abroad

TOP 10: 50+

Top 10 Cloud providers AZ: 50+

Cloud Bond Cross Border Cloud Interconnect





Intelligent On-line Self Service





选择站点:

Q 按CE名称或端口号搜索

CE名称 端口号 端口QoS

提升带宽: ▼ 当前带宽:100M,最大可用带宽:1000M

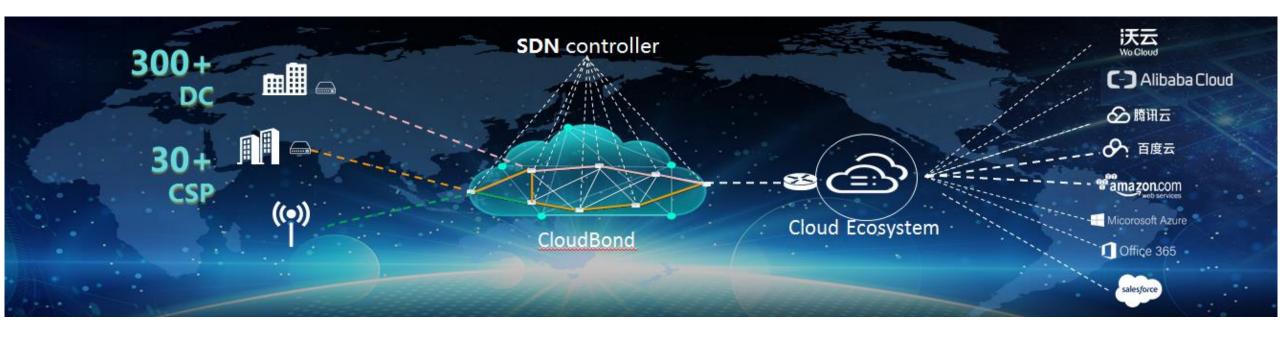
提升带宽: 2M
10M
20M
50M
100M
200M
500M
11G

- Intelligent control, self deployment
- Elastic bandwidth, flexible adjustment
- On-line pricing, flexible monthly payas-you-go billing



Cloud Bond Scenario - Multi-Cloud Interconnect



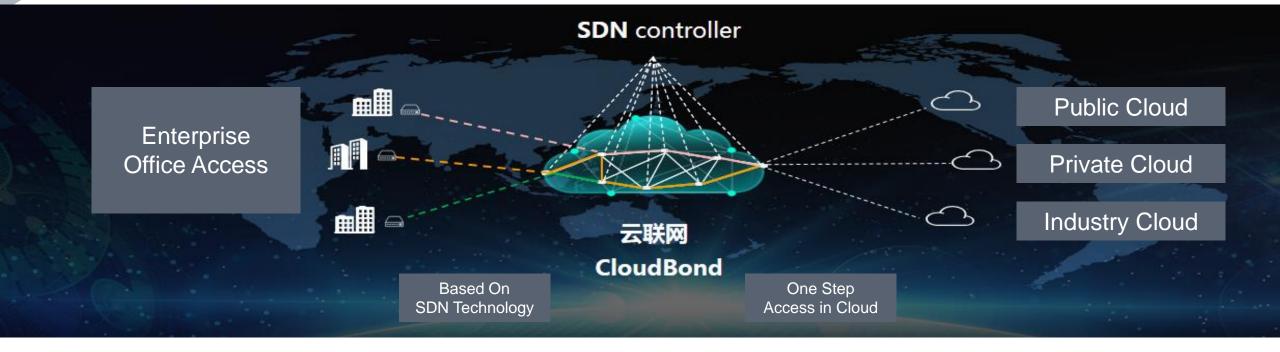


Scenario

- Multi-Cloud interconnect requirement from enterprise backup consideration and existing multi-cloud deployment circumstance
- Enterprise need to connect different cloud environment in China and abroad
- Enterprise is hosting application in both public cloud and private cloud and need communication between them

Cloud Bond Scenario – Access to Cloud





Scenario

- Enterprise need to establish connection between office and cloud
- Enterprise need to establish connection between office and private cloud co-located in IDC



Foreign Language Education Institution



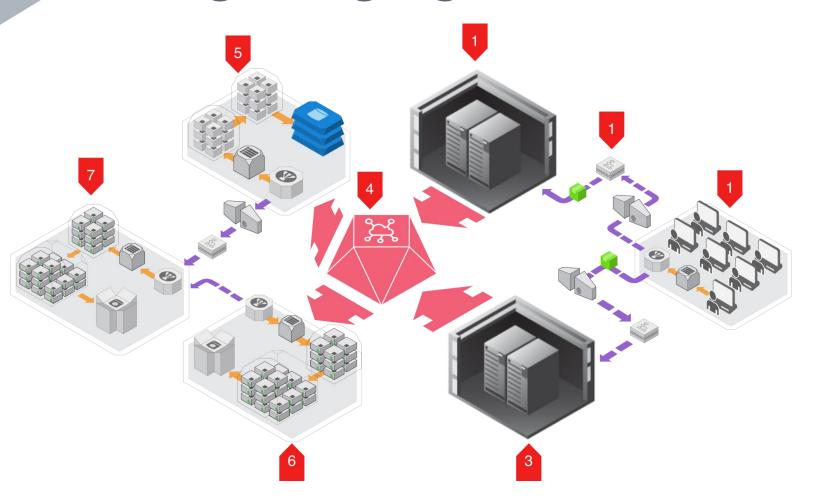
Client Introduction and Demand Analysis:

The client is a mature enterprise engaged in foreign language video education business in China, and online video is used to realize the interaction between foreign teachers and students in China. It occupies a relatively high market share in foreign language teaching.

The client initially used the public network to carry the entire live broadcast data of the teacher and the student. However, due to the rapid growth of the business and the rapid increase in the number of visits in a short time, the real-time video was significantly delayed and stuttered. After explaining the Cloudbond solution, the client finally determined that China Unicom Cloudbond will realize the interconnection between the client's Alibaba Cloud in Tokyo, Alibaba Cloud in Silicon Valley and several public cloud nodes in China, thereby reducing data delay and ensuring that the teaching process is not affected.

Foreign Language Education Institution





Since its opening, the client's network bandwidth between China and the United States has expanded from 30M to 600M, and it is expected to exceed 1G in April.

Legend:

- 1. Foreign teacher client, overseas live video source.
- 2. The Alibaba Cloud resource pool in Silicon Valley of the United States, carrying video data for foreign teachers in the Americas.
- 3. Alibaba Cloud Resources in Tokyo, Japan, carrying video data of foreign teachers in Southeast Asia and Australia.
- 4. China Unicom's Cliudbond backbone network.
- 5. Clients own private cloud in China, carrying application core and core data.
- 6. Alibaba Cloud in China, carrying video data of domestic students and foreign teachers.
- 7. Student client, the main domestic video consumption channel.

Industrial production company

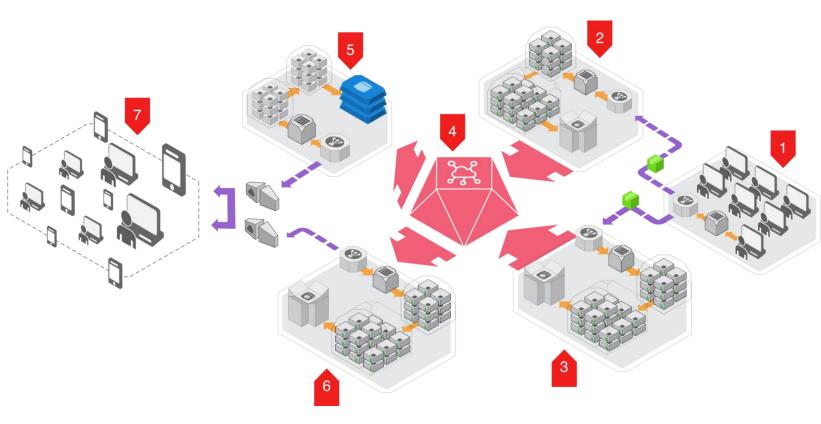


Client Introduction and Demand Analysis:

The client is a well-known enterprise in China's private electrical industry, and it occupies a large share in the white goods, industrial appliances, and smart home markets. It is a representative enterprise in China's traditional manufacturing industry that successfully achieved Internet transformation.

Customers have built an IoT platform that provides services for their industrial production by using Alibaba Cloud's domestic resource pools, AWS Hong Kong and Azure Singapore resource pools, and carry part of the video transmission business. However, due to the quality problem of the public network, it has been plagued by problems such as "long interruption of message queue connection" and "data synchronization packet loss". After introducing Cloudbond to users, the final plan was determined based on the interconnection of China Unicom's Cloudbond data center and cloud resource pools, Cloudbond and the original MV network structure networking

Industrial production company





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Legend:

- 1. Overseas IoT equipment and terminal data sources.
- 2. Azure Singapore resource pool, to undertake overseas data and information processing.
- 3. AWS Hong Kong resource pool, to undertake overseas data and information processing.
- 4. China Unicom's Cloudbond backbone network.
- 5. The user's original data center resources, carrying core business processing and user core network nodes.
- 6. Alibaba Cloud resource pool in mainland China, undertaking domestic IoT equipment and terminal data sources.
- 7. The operation & maintenance and supervision departments of the client enterprise management and core IT departments.

Pharmaceutical Biotechnology Company



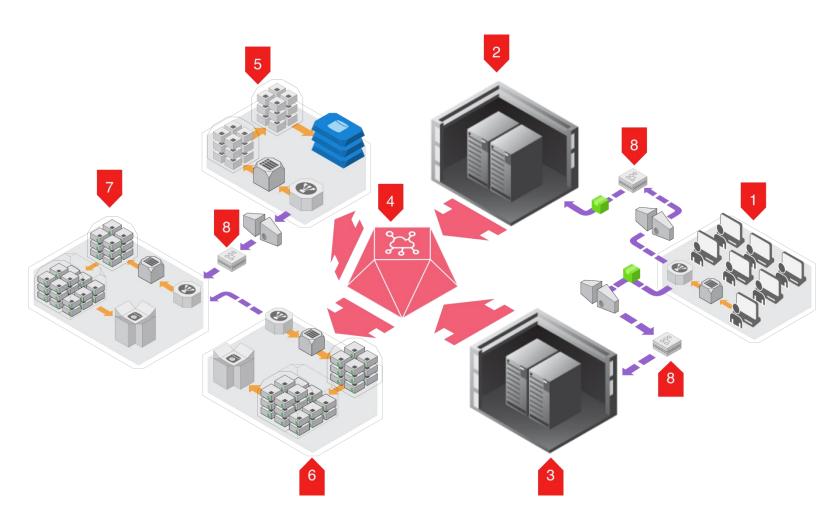
Client Introduction and Demand Analysis:

The client is a private enterprise with a leading position in the Chinese medical, pharmaceutical and biotechnology industry. The client has two research centers in New York and London respectively, and purchases IDC resources to carry the research business locally. The client has multiple branches in mainland China, and carries its data analysis business through public cloud / private cloud.

At present, customers need to construct a real-time imaging system and health monitoring platform for medical treatment through IDC + public cloud + private cloud, which have high requirements on network delay and network structure. After introducing Cloudbond to client, it was finally decided to use China Unicom's hybrid networking + SD-WAN hybrid networking method to complete its requirements for network architecture.

Pharmaceutical Biotechnology Company





Legend:

- 1. Client's research institutions located in New York and London.
- 2. Client's data center located in New York.
- 3. Client's data center located in London.
- 4. China Unicom's Cloudbond backbone network.
- 5. Client's private cloud located in mainland China.
- 6 & 7. Client's Alibaba Cloud located in mainland China.
- 8. SD-WAN network equipment.

THANK YOU

