



**SDS**



**LEADING IDC  
AND PRIVATE CLOUD  
SERVICES PROVIDER  
IN CHINA**



上海数讯信息技术有限公司  
Shanghai Data Solution Co., Ltd.





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# ABOUT US

With the support of Pudong New Area government, Shanghai Data Solution Co., Ltd. was initiated by the state-owned enterprises Shanghai Zhangjiang High-tech Park Development Co., Ltd. and Shanghai Telecom Industry (Group) Co., Ltd., established and co-invested by Shanghai Yinghong Investment Management Co., Ltd., Shanghai Dazhong Transportation (Group) Co., Ltd., and Shanghai Zijiang Enterprise Group Co., Ltd. The company has such business licenses of data centre (IDC), Internet access, fixed network data transmission and cloud computing as issued by the Ministry of Industry and Information Technology. It is mainly engaged in Internet data centre, network communication, communication and information value-added services and other related businesses, providing the government, financial institutions and enterprises with a series of products and solutions including data centre, cloud computing, Internet access, data line and network security services, etc.

At present, the company has the total assets of more than RMB 600 million Yuan, annual sales revenue of more than RMB 500 million Yuan, and more than 200 employees. It is ranked a high-tech enterprise in Shanghai and a small giant S&T enterprise in Shanghai.

Since its establishment, the company has committed to serving the construction of Shanghai and Zhangjiang High-tech Park. With the support of the Pudong New Area government, the company has invested in the construction of communication pipelines and optical fibre resources covering the entire Zhangjiang High-tech Park, realizing the access of optical fibre to the buildings in the park, and established the local broadband "Zhangjiang new network" covering the Zhangjiang High-tech Park area, and thus the environment and infrastructure of communication and informatization in this area is enormously improved and upgraded.

Since 2003, the company has successively invested more than RMB 500 million Yuan and built four data centres in Zhangjiang, Jinqiao and other places in Shanghai, with an area of more than 30000m<sup>2</sup>, and more than 4000 cabinets. It mainly serves the financial industry, including banking, futures, third-party payment of securities, foreign exchange trading, etc., and Shanghai-based domestic and foreign enterprises in various sectors such as biomedicine, information, manufacturing, R&D, S&T innovation.

Currently the company has more than 1100 users of various sectors. With 20 years' rich experience of operation and service in data centre and network communication, and a stable professional team of construction, R&D and operation, the company not only provides communication and information functional services for enterprises and institutions in Zhangjiang High-tech Park, but also provides data centre and cloud computing services for enterprises of finance, manufacturing, R&D, S&T innovation and multinational enterprises. SDS has become a major local third-party data centre service provider in Shanghai.

# QUALIFICATIONS



- ① Telecommunication Business License
- ② Data Centre Site Infrastructure Certification
- ③ ISO 9001 International Quality Management System Certification
- ④ ISO 20000 IT Management System Certification
- ⑤ ISO 27001 Information Security Management System Certification
- ⑥ ISO 22301 International Business Continuity Management System Certification
- ⑦ Level-3 Information Security Classified Protection of Ministry of Public Security
- ⑧ ITSS Cloud Level Certificate
- ⑨ Broadband Access Network Approval
- ⑩ CNNIC Certificate
- ⑪ High-tech Enterprise Certificate
- ⑫ Software Enterprise Certificate



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# MILESTONES

July, 1999 SDS was founded

June, 2000 ATM broadband network completed

December, 2000 The first phase of Zhangjiang New Network was completed and put into use

## 1999-2000

**Serving The Enterprises  
in The High-tech Park  
Modern Communication Needs**

2006 SDS UnionPay Data Centre built

July, 2008 IDX SH2 high-level data centre established and put into operation

March, 2011 BCP business continuity seat service launched

2018 IDX SH3 Data Centre established and put into operation

June, 2014 IDX BJ2 Data Centre established and put into operation

2014 SDS VDC1.0 Cloud Service launched

## 2006-2014

**Industry Leading Data  
Centre Services**

September, 2001 The software park IDC data centre was completed and put into use.  
2004 to provide high-quality multi-line Internet BGP network was first developed and built.  
2005 IT infrastructure monitoring and management services were initiated.

## 2001-2005

Serving The Global  
Top 500 Enterprises and  
Financial Institutions

## 2016-Now

Serve The Construction of  
Shanghai Innovital Capital  
Provide High-quality Data  
Communication Service

2016 The rapid communication platform of futures finance completed and continues to expand

April, 2016 SDS VDC2.0 Cloud Service research and development launched

2018 SDS VDC2.0 Cloud Service launched

2018 IDX SH4 Data Centre is established and put into operation

2019 SDS VDC3.0 Full Cloud Management Platform put into operation

# PARTNERS







AT&T



USA



EQUINIX

UNISYS

# IDX COLOCATIONS

In order to serve the needs of Shanghai International Finance Centre, SDS has created a supreme IDX data centre cluster. IDX has the international high-end TIER4 standard, and covers Shanghai and Beijing, meeting such different patterns of planning needs of high-level users as in the same city, at different places and three centres at two places. IDX data centres have abundant communication resources and is a “carrier neutral data centre” connecting all domestic ISPs.

SDS provides users with one-stop integrated communication solutions, including data centres, cloud services, network, line, management services, value-added services, etc. The private cloud platform supports various connection modes and can easily realize the mixed deployment of traditional hosting and private cloud.

IDX provides a highly available and flexible business model and promises high SLA. SDS's highly professional and standardized team of operation and maintenance follows ISO27001, ISO20000 and ITIL standards, and provides 7×24 full-time service.



## IDX SH4

Put into operation in 2018  
3-storey building with total area 6800m<sup>2</sup>

## IDX BJ2

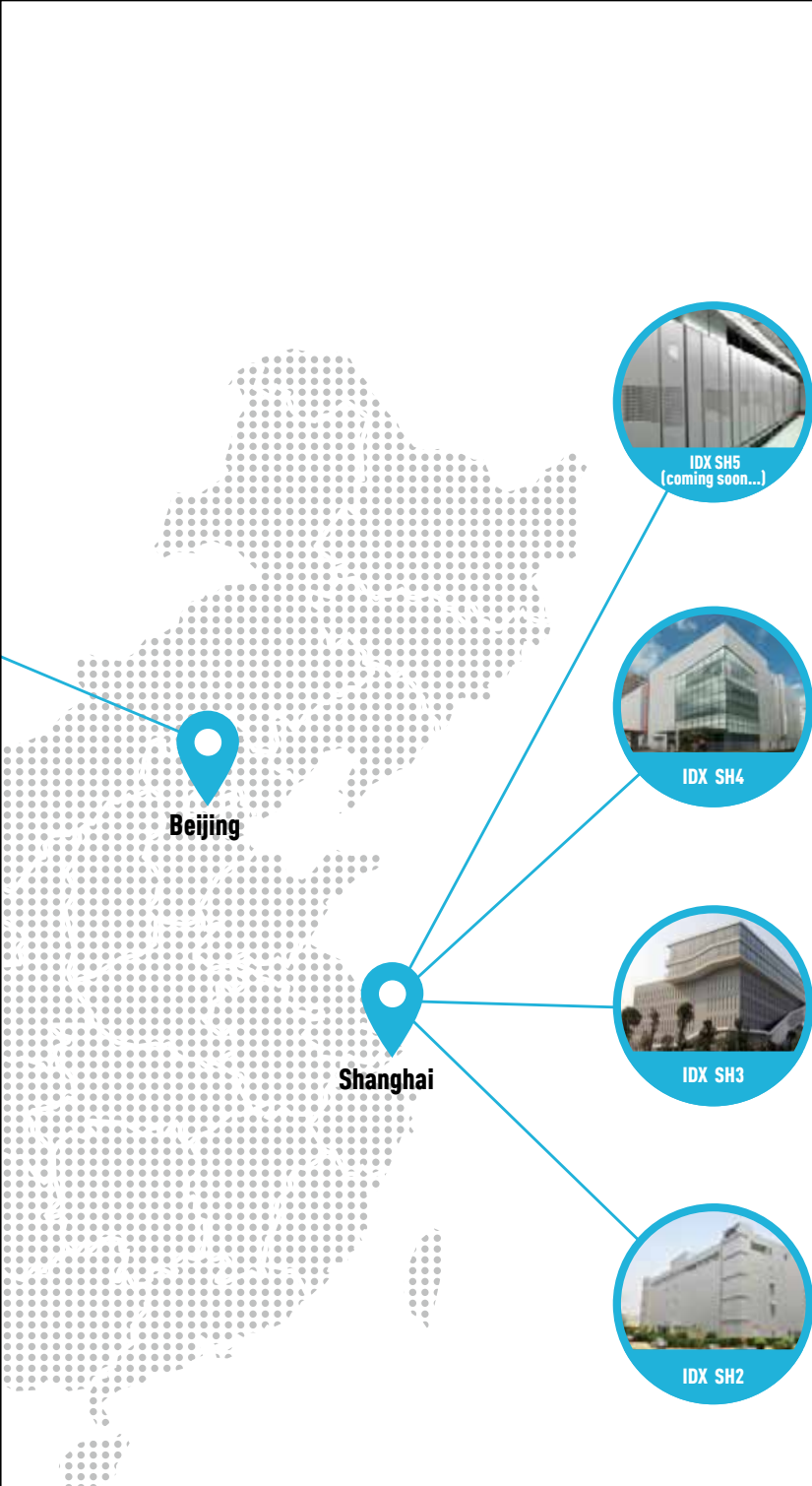
Put into operation in 2014  
4-storey building with total area 25000m<sup>2</sup>

## IDX SH3

Put into operation in 2013  
6-storey building with total area 13000m<sup>2</sup>

## IDX SH2

2008  
5-storey building with total area 9000m<sup>2</sup>



### High-standard Data Centre

- Top-ranked Configuration  
Tier4 standard construction, full redundancy design, to meet the requirements of high-end users for data centres
- High level of Safety  
Level 3 Certification of National Information Security Classified Protection

### Highly Stable Data Centres

- Electric supply of different bureaus directions
- Full-redundancy Power System
- International famous-brand facilities
- Power SLA Capacity Commitment 99.995%

### Highly Secured Data Centres

- Building Monitoring System
- VESDA+IG541 Fire Detection

### Green Energy-saving Data Centres

- PUE design value 1.6
- Down air cooling
- Separation of hot and cold channels
- Ventilation system with air volume adjustable

### High-availability Data Centres

- Multiple Service Levels
- Diversified Professionals Available
- 7×24 Operation Support
- Proper and Sound System of Safety Management

# HYBRID CLOUD VDC3.0 ALL-CLOUD MANAGEMENT PLATFORM



Fully independent development, HybridCloud integration management based on different technologies, eliminating the network marginal effect of traditional virtual machine network and container network. The integrated management on the connection of third-party cloud such as AWS, Azure, Ali etc., is available for users to easily and seamlessly access the secured and customized experience brought by the private cloud on the same platform, and can enjoy the standardized and low-cost services provided by the public cloud.

## Core Advantages

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### Security and Neutrality

Adhering to neutrality and openness, extensive and authoritative security certification, sound and reliable functions of security and control, a safe and stable comprehensive enterprise service platform based on cloud mode for enterprises.

### Unified Architecture

It covers public cloud, private cloud, hosting cloud, hybrid cloud and other cloud computing forms, and provides an overall cloud computing solution based on the same technical architecture to meet the unified integration needs of various enterprises.

### Full Mode Coverage

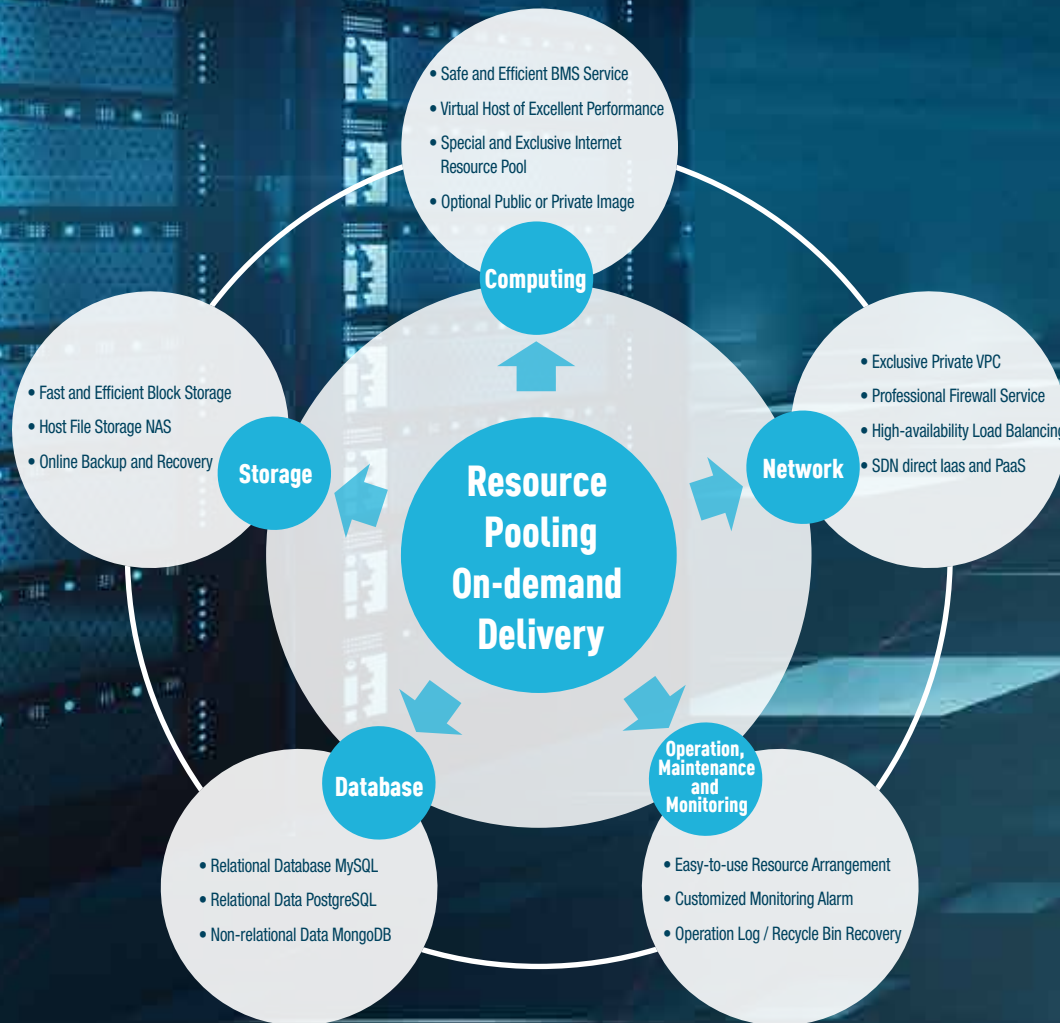
Providing distributed and centralized structure deployment solutions; flexible, agile, efficient implementation of unified management business model according to the business characteristics of an enterprise.

### SDN Interconnection

To meet the seamless access between virtual machines and containers, the cloud network integration solution has been built based on the SDN technology of Tungsten fabric to help enterprises realize end-to-end interconnection access among the cloud, data centres and enterprise branches without destroying any original network architecture.

VDC3.0 is based on Open Stack and Openshift open-source technologies, with its front-end based on Ant Framework. It integrates a variety of containers and micro-services, and comprehensively upgrades the services at Paas and IaaS levels.

Support: mixed deployment, private cloud service with hosting, monthly rental business model, no hardware burden.



# IDX CLOUD

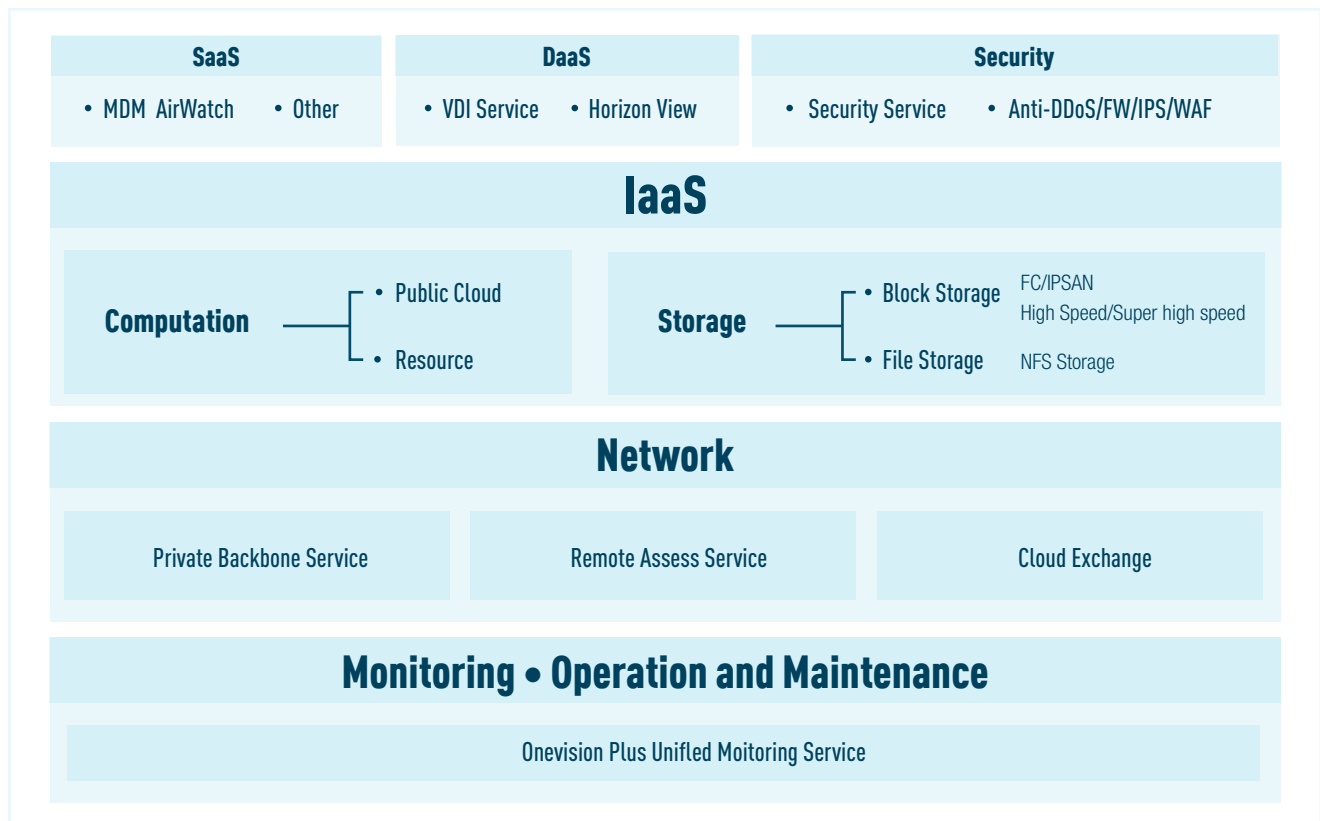
## Enterprise Hosting Private Cloud Platform

### What is IDX Cloud? IDX Cloud = CSP+MSP

IDX cloud service combines the excellent characteristics of cloud manufacturers and cloud service providers, and provides comprehensive assistance for enterprises' seamless migration to the cloud.

Based on the enterprise level VMware architecture, IDX cloud services widely cover private cloud, public cloud, hybrid deployment, VDI, cloud consulting, cloud migration, cloud operation and maintenance management services.

IDX cloud service supports two places and three centres, providing remote disaster recovery solutions in Shanghai and Beijing.



Based on VMware technology, IDX cloud provides classic enterprise level private cloud services, with fully-opened Vcentre permissions.

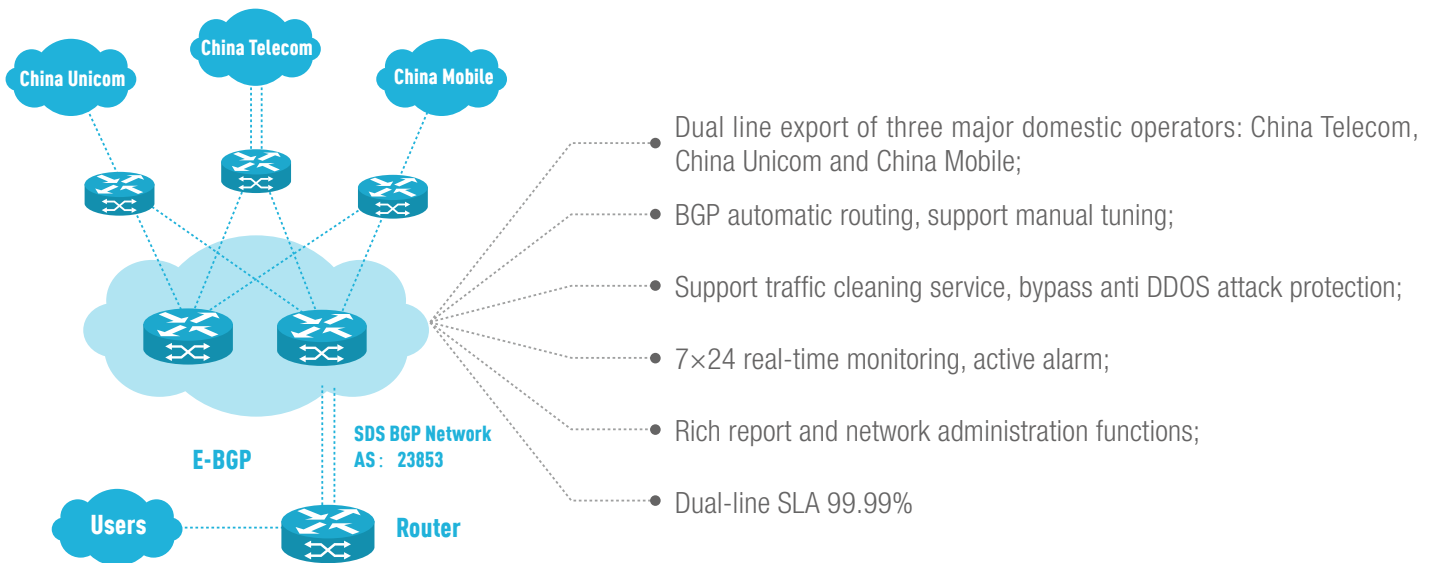
Support: mixed deployment, private cloud service with hosting, monthly rental business model, no hardware burden.

## 5 ADVANTAGES ABOUT IDX CLOUD

- Since the highest authority of the console is opened, the IDX cloud platform is the same as the pure private cloud architecture, and can fully use all the functions provided by the Hypervisor.
- Customers do not need to consider the hardware and platform operation risks and costs of Private Cloud Architecture, which greatly reduces the burden of customers.
- The applications and software purchased by customers, including some operation and maintenance management plug-ins, can be seamlessly migrated to the IDX cloud platform to avoid repetitive investment by customers.
- A series of licenses, including NSX and SRM are available at IDX cloud platform on a monthly paid basis.
- Since there is no contract period limitation, it is very suitable for some short-term or SmallStart projects.

# SDS NETWORK SERVICES

## E-BGP High-quality Internet Access Options



## Inner ZJ-Park Internet access optimization via Zhangjiang Internet

- Full Coverage of ZJ High-tech Park Resources
- Excellent Cost-performance Ratio
- 7×24 service



# MULTI-CLOUD INTERCONNECTION

## Multi-cloud Internet Service

To provide enterprises with diversified cloud interconnection services of cloud interconnection, cloud-cloud interconnection with the core SDN Technology and based on extensive underlying network coverage,

### Multi-cloud Internet Service

- Resources can be configured according to the needs to meet the changing business needs, bringing excellent cloud network experience to enterprises, and solving the data transmission needs of cloud disaster recovery.
- Powerful intelligent control, visual interface operation, intelligent traffic scheduling.
- Support on-demand opening, flexible billing requirements, and truly realize the network as a service (NaaS)

### Features

#### Cloud Network Eco-system

It covers AWS, Alibaba Cloud, Tencent Cloud, Azure and other high-quality cloud service providers.

#### Optional bandwidth and flexible billing

According to users' needs, the bandwidth can be expanded or reduced at any time, and payment can be set on customized demand. Flexible and scalable to meet the elastic needs of customers.

#### Instant Configuration

Self-service operation during the whole process integrates the scattered manual operation links, simplifies the audit process of cloud high-speed channel access, and easily completes the cloud linkage.

# SDS VALUE-ADDED SERVICES

## IT Operation and Maintenance Management Services

IT operation and maintenance management services include comprehensive, active and intelligent monitoring and management solutions. Monitoring and management objects cover a variety of environment such as IT systems, databases, virtualization applications, etc.

IT operation and maintenance management services significantly reduce the cost of operation and maintenance, improve the efficiency of operation and maintenance, and ensure the continuous business operation.



Switching  
Network

H3C

Juniper  
NETWORKS

FOUNDRY  
NETWORKS

CISCO

HUAWEI

DELL



Boundary  
Network

H3C

Juniper  
NETWORKS

FORTINET

CISCO

Internet



Operation  
System

CentOS

Windows Server

hp

IBM

FreeBSD

ubuntu

solaris



Application  
Virtual System

SQL Server

ORACLE

MS

iis

VMWARE

The Apache Exchange

## Remote Hands Service

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The data centre remote service provides one-stop solution to the problem of remote management of hosted cabinets.

The scope of service: equipment installation, daily equipment inspection and management, management of cabling and wiring, network configuration, internal visual view of cabinet, customized reports, etc.

## Service Expert Team

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### **Value-added services are provided to customers by service experts**

- 10 Years + High-Standard Data Centre Management Experience of Operation and Maintenance
- 100 people + bilingual expert group, uninterrupted service throughout the year;
- ISO20000, ITIL and other professional knowledge; ITIL, PMP, CCIE Security, CCIER&S, CCSA, CCSE, CCSP, MSCE, RHCE, VCP, OCP, MSITP and several other professional certification and qualifications

# SDS VALUE-ADDED SERVICES

## DDoS Flow Cleaning Service

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Data flow cleaning service, with 3-layer cleaning structure:

Level-1 Protection: with the help of the operator's pipeline level anti-D ability, the unlimited cleaning ability is further guaranteed through the near-source suppression and near-source cleaning, QoS speed limit and other strategies of backbone routing.

Level-2 Protection: by deploying military level hardware firewall locally, it diagnoses abnormal traffic flow in real time, cooperates with private IP reputation database, automatic discovery of local rules and policies, automatic traction, and automatic startup of cleaning strategy. It can be linked with the cloud to update the local IP reputation database and protection strategy in real time through the cloud.

Level-3 Protection: local private DAF (DPDK based application firewall) is an important part of the third level cleaning centre. It conducts packet by packet in-depth detection upon the application-layer attacks through the cluster architecture with the support of IP reputation database and device fingerprints, with the response time delay of an attack counted by seconds. Cooperate with big data machine to learn to accurately identify attack behaviours, instantly eliminate application-layer attacks, and provide users with perfect protection experience.



## SDS iDESK Enterprise-level Professional Seat Service

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After 20 years of practice and improvement, SDS debuts its brand-new iDESK, i.e. an enterprise level professional seat service, in 2020. Located in Pudong Zhangjiang High-tech Park, adjacent to Lujiazui Financial Trading Zone. Serving customers around the globe with a new status. Operation and maintenance seat service and disaster recovery seat service in accordance with ISO22301 and ISO27001 SDS enterprise professional seat service iDESK is equipped with high-level office facilities, network conference equipment, hospitality shuttle bus, epidemic prevention and disinfection, on-demand drill, 7×24 bilingual customer services, etc. Supreme seat service for enterprises.

In addition to the seat service, SDS also provides enterprise users with irregular business continuity training and professional on-line consultation by directors of BCP Asia. Trainings of excellent quality are helpful to answer questions and resolve problems about business continuity.



# EXCELLENT OPERATION

## Timely Response



## Operation

13 years of experience in data centre operation and maintenance



## Process

ISO27001+  
ISO22301+  
ISO20000  
=100% Trustworthiness



## Framework

Better support for business operations

# OUR CLIENTS







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