

ZDNS currently uses multiple data centers, which are distributed as follows:

No.	IDC	Location	DC Standard Level
1	CSNET	Beijing	50174-2008A
2	Cloud Times	JiuXianQiao	GB50174-2017A
3		Chengdu	GB50174-2017A
4	HKIX	Hong Kong	
7	Cogent	Los Angeles	
8		Chicago	
9		Frankfurt	
10		New York	

Also,ZDNS is currently investigating a new data center. The standard of the new data center should meet GB50174-2017A or Tier III.

The following is the use instruction of ZDNS for Tier III or equivalent data centers having no inter-dependencies:

1. ZDNS uses the Jiuxianqiao data center, among which Jiuxianqiao Data Center has the data center site infrastructure certification certificate, the certification level of which is enhanced level, GB50174-2017A level. Please refer to the attachment "M5-OLA-1004264.pdf" for the certificate.**The A-level data center room is the highest level data center room in China, with high security, reliability, and scalability.**

In the data center industry of China, the first thing that must be followed is the "Data Center Design Specification" (GB50174-2017), which is the national standard for the data center industry and a national specification that must be followed in all data center design processes. The Data Center Design Specification divides data centers into three levels: A, B, and C.

Please refer to the original standard for the classification of data centers, and the translation can be found in the table below.

3.1 分 级	
3.1.1	数据中心应划分为 A、B、C 三级。设计时应根据数据中心的 使用性质、数据丢失或网络中断在经济或社会上造成的损失或 影响程度确定所属级别。
3.1.2	符合下列情况之一的数据中心应为 A 级： 1 电子信息系统运行中断将造成重大的经济损失； 2 电子信息系统运行中断将造成公共场所秩序严重混乱。
3.1.3	符合下列情况之一的数据中心应为 B 级： 1 电子信息系统运行中断将造成较大的经济损失； 2 电子信息系统运行中断将造成公共场所秩序混乱。
3.1.4	不属于 A 级或 B 级的数据中心应为 C 级。
3.1.5	在同城或异地建立的灾备数据中心，设计时宜与主用数据 中心等级相同。
3.1.6	数据中心基础设施各组成部分宜按照相同等级的技术要 求进行设计，也可按照不同等级的技术要求进行设计。当各组成 部分按照不同等级进行设计时，数据中心的等级应按照其中最低 等级部分确定。

3. 1. The data center should be divided into three levels. When designing, the level should be determined based on the nature of data center usage, the extent of economic or social losses or impacts caused by data loss or network interruption.

3. 1. Data centers that meet one of the following criteria should be classified as Class A

The interruption of electronic information system operation will cause significant economic losses;

The interruption of electronic information system operation will cause serious disorder in public places.

3. 1. Data centers that meet one of the following criteria should be classified as B-level

The interruption of electronic information system operation will cause significant economic losses;

The interruption of electronic information system operation will cause disorder in public places.

3. 1. Data centers that do not belong to level 4 or level 4 should be classified as level C.

3. 1. Disaster recovery data centers established in the same or different cities should be designed at the same level as the primary data center.

3. 1. The various components of data center infrastructure should be designed according to the same level of technical requirements, or they can be designed according to different levels of technical requirements. When each component is designed according to different levels, the level of the data center should be determined based on the lowest level part.

2. ZDNS also uses the computer network Information Center of Chinese Academy of Sciences(CSNET), which is built according to the highest level T1A4 (GB50174-2008A level) of international IDC construction standards. The construction description is as follows:

The technology network room is currently built according to the highest level of international IDC construction standard T1A4 (50174-2008A level), and is currently applying for a certificate.

Please refer to the official website for the construction instructions of this data center.



The Huairou Data Center of the Computer Network Information Center of the Chinese Academy of Sciences is located in Yanxi Economic and Technological Development Zone, Huairou District. The machine room covers an area of 20000 square meters and can accommodate more than 1000 cabinets. The park is designed by China Electronics Engineering Design Institute and constructed according to the highest level **T1A4** (international 50174-2008A level) of international IDC construction standards. It is equipped with high-end professional network equipment, advanced and complete computer room facilities, and a stable and secure power supply system. The Computer Network Information Center of the Chinese Academy of Sciences is the system integration, operation and service guarantee institution of the Chinese Academy of Sciences' scientific research informatization and management informatization, as well as the R&D and demonstration base of informatization application technology. Relying on the rich resources of the Chinese Academy of Sciences, China Telecom, China Unicom, China Mobile, China Science and Technology Network, Huairou Data Center provides professional server hosting, professional maintenance, network access and related value-added services.

3. ZDNS is also currently investigating new data centers, which are required to meet the Tier III or GB50174-2017A level standards. Once the new data centers are investigated and built, they will be put into use.

In summary, ZDNS meets this requirement.

For DNS, Beijing, Hong Kong, Los Angeles, Chicago, Frankfurt, New York is anycast; JiuXianQiao and Chengdu unicast.

Please refer to the following text for the attachment and translation of the SJ 0001094

电话: +86 10 83886666
<http://www.cqc.com.cn>



Data Center Site Infrastructure Certificate

Certificate Number: CQC240014020402

Date of Issuing: December 29, 2024 **Date of Expiry:** December 15, 2027

Name and Address of Certification Principal

Beijing CenturyLink Broadband Data Center Co.

3F, Building 5, No.1 Jiuxianqiao East Road, Chaoyang District, Beijing, China

SJ 0001094

Data Center Name and Address

CenturyLink Beijing M5 Phase III Data Center
M5, Electronic City Innovation Industrial Park, No.1 Jiuxianqiao East Road, Chaoyang
District, Beijing, China

Certification Basis

CQC1324-2018 *Technical Specification for Data Center Site Infrastructure
Certification*

Certification Level

Enhanced Level
(GB50174-2017 Level A)

Certification Mode

On-site audit and witness test + post-certification supervision
The scope and elements of certification are listed in the Annex.

The above data center meets the requirements of CQC13-541203-2017 certification
rules and is hereby issued this certificate.

This certificate is a change certificate. The original issue date of the certificate is
January 29, 2024.

The validity of this certificate during the validity period of the certificate is
maintained based on the regular supervision of the issuing organization.

Issued: Xie Zhao Xu

CQC China Quality Certification Center

Tel: +861083886666 China-Beijing-No.188 South Fourth Ring West Road, Area 9
100070 <http://ww.cqc.com.cn>

Data Center Site Infrastructure Certificate

Annex:

Certificate Number: CQC240014020402

Scope and elements:

Certification coverage includes:

First floor: chilling station (2 chillers with a cooling capacity of 3,517 kW and 2 cold storage tanks (84 m³)).

Second floor: Battery room (3 sets of storage batteries/single set of 132 cells/12V145Ah).

Fourth floor: 1# low voltage distribution room (1 set of 2500kVA transformer), 2# low voltage distribution room (1 set of 2500kVA transformer), 3# low voltage distribution room (1 set of 2500kVA transformer, 1 set of 1250KVA transformer), 4# low voltage distribution room (1 set of 2500kVA transformer, 1 set of 1250kVA transformer), 1# UPS room (3 sets of 500kVA UPS, 6 sets of 400kVA UPS), 2 # UPS room (3 sets of 500kVAUPS, 6 sets of 400kVA UPS), 1 # Battery room (2 groups of batteries / single group of 132/12V180Ah, 2 groups of batteries / single group of 132/12V145Ah), 2 # Battery room (1 group of batteries / single group of 132/12V180Ah, 2 # Battery room (1 group of batteries / single group of 132/12V180Ah, 2 # Battery room / single group of 132/12V180Ah, 2 # Battery room / single group of 132 12V180Ah, 2 batteries/single 132/12V145Ah),5#battery room(3 batteries/single 132/12V180Ah, 3 batteries/single 132/12V145Ah),6#battery room(1 battery/single 132/12V145Ah),7#battery room(2 batteries/single 132/12V145Ah),6#battery room(1 battery/single 132/12V145Ah),7#battery room(2 batteries/single 132/12V145Ah),7#battery room(2 batteries/single 132/12V145Ah),7#battery room(2 batteries/single 132/12V145Ah),7#battery room(2 batteries/single 132/12V145Ah), DC18 data room (248 cabinets/4.5kW), DC18 data room air-conditioning room (10 precision air-conditioners with 160kW cooling capacity), DC19 data room (252 cabinets/4.5kW), DC19 data room air-conditioning room (10 precision air-conditioners with 160kW cooling capacity), DC20 data room (232 cabinets/4.5kW), DC20 data room air conditioning room (9 precision air conditioners with 160kW cooling capacity).

Outdoor: 2 cooling towers, 5sets of 2500kVA diesel generators.

Certification coverage does not include:

Networking and cabling systems.

CQC China Quality Certification Center

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