数据中心分级体系证明

Data Center Tier Classification System Certification

致中国互联网络信息中心：

To China Internet Network Information Center:

兹证明，我数据中心（北京市海淀区信息路 18 号创新大厦机房）经过严格评估与审核，确认本数据中心在设计和建设方面完全符合中国国家标准 GB50174《电子信息系统机房设计规范》中的 B 级要求，并认为其基本达到国际 Uptime Institute Tier 3 级别的标准。以下为本数据中心满足 GB50174 B 级要求的具体阐述，以及与 Tier 3 标准的相似点。

This is to certify that our Data Center (located in the Computer Room of the Innovation Building, No. 18 Xinxi Road, Haidian District, Beijing) has undergone rigorous evaluation and review. It has been confirmed that the design and construction of this Data Center fully comply with the Class B requirements stipulated in the National Standard GB50174 *Code for Design of Electronic Information System Room*, and is deemed to have essentially met the international Uptime Institute Tier 3 standard. The following is a detailed elaboration on how the Data Center meets the Class B requirements specified in GB50174 and its similarities to the Tier 3 standard.

一、 GB50174 B 级标准概述：

Overview of Class B Standard in GB50174:

根据 GB50174-2017 标准中 B 级数据中心具体要求包括：

Specific requirements for the Class B data center, as stipulated in the GB50174-2017 include:

1. 地选择与建筑构造：数据中心选址合理，避开地震、洪水等自然灾害频发区域，建筑结构稳固，满足电子信息设备的安全运行需求。

   Site Selection and Building Structure: The Data Center is located in a reasonably chosen site, avoiding areas prone to natural disasters such as earthquakes and floods. The building structure is robust, meeting the operational safety requirements for electronic information equipment.

2. 环境控制：数据中心内部环境参数（如温度、湿度）严格控制，确保设备处于最佳运行状态，同时设有备用空调系统，保障环境稳定性。

   Environmental Control: Internal environmental parameters (e.g., temperature, humidity) within the Data Center are strictly controlled to ensure that the equipment operates under optimal conditions. Additionally, a backup air-conditioning system is installed to guarantee environmental stability.

3. 电气系统：采用双路市电供电，配置不间断电源（UPS），形成可靠的电力供应体系，满足 B 级冗余要求。

   Electrical System: Dual-circuit mains power supply is adopted, with an Uninterruptible

Power Supply (UPS), forming a reliable power supply system that meets the requirements of Class B redundancy.

4. 消防与安全：配备先进的火灾报警及自动灭火系统，定期进行安全演练，确保数据中心的安全运行。
   Fire Protection and Safety: Equipped with cutting-edge fire alarm and automatic fire suppression system, and regular safety drills are conducted to ensure the safe operation of the Data Center.

5. 综合布线与接地：采用高质量的综合布线系统，支持高速数据传输，且设有完善的接地系统，保障设备安全及信号稳定。
   Integrated Cabling and Grounding: A high-quality integrated cabling system is employed to support high-speed data transmission. Moreover, a comprehensive grounding system is established to safeguard equipment safety and signal stability.

6. 监控系统：配备先进的环境监控及安防系统，包括视频监控、入侵报警等，可实现数据中心的安全及运行状态的实时监控。
   Monitoring System: Advanced environmental monitoring and security systems are installed, including video surveillance, intruder alarms, etc., enabling real-time monitoring of the Data Center's security and operational status.

二、 GB50174 B 级与 Uptime Tier 3 标准相似点：
Similarities between Class B in GB50174 and Uptime Tier 3 Standards:

GB50174B 级标准强调数据中心在物理设施、电气系统、环境控制等方面的冗余与可靠性，与 Uptime Tier 3 标准在多个方面存在相似之处，具体表现在：
Class B requirements in the GB50174 emphasize redundancy and reliability in physical infrastructure, electrical systems, environmental control, and other relevant aspects of Data Centers, and share similarities with the Uptime Tier 3 standard in multiple respects, specifically:

1. 冗余配置：
   Redundancy configuration:

两者均要求关键基础设施（如电力、冷却）具备冗余配置，确保在单一故障点发生时，数据中心能够持续运行。
Both standards require redundancy configurations for critical infrastructure (e.g., power, cooling) to ensure the continuous running of the Data Center in the event of a single point of failure.

2. 故障切换能力：
   Fault-switching capability:

虽然 GB50174 B 级标准未明确提及自动故障切换机制，但我数据中心在设计和建设方面已具备故障检测与切换能力，这与 Tier 3 标准中的“同时可维护性”理念相契合。

Although the Class B requirements specified in the GB50174 do not explicitly mention an automatic fault-switching mechanism, our Data Center has already incorporated fault detection and switching capabilities in its design and construction, which aligns with the "concurrent maintainability" concept in the Tier 3 standard.

3. 物理安全：
   Physical security:

两者均对数据中心的物理安全提出严格要求，包括场地选择、建筑结构、消防系统等。
Both standards impose stringent requirements on the physical security of Data Centers, including aspects such as site selection, building structure, and fire protection systems.

综上所述，我数据中心在满足 GB50174 B 级标准的同时，其实际运营效能已基本达到 Uptime Tier 3 级别的标准。
In conclusion, our Data Center not only adheres to the Class B standard specified in GB50174, but its actual operational efficiency has also essentially attained the level of the Uptime Tier 3 standard.

特此证明。
This is hereby certified.

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公章：（加盖公章）
Official Seal: (affixed with the official seal)

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