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**Information technology - Cloud computing - General technical
requirements for edge cloud**

信息技术 云计算 边缘云通用技术要求

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Foreword

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1 Scope

China's national general technical requirements for edge cloud computing. Edge cloud places computing capacity near where data is produced rather than in a distant data centre, and the reasons are three. Latency: a control loop, an augmented reality display or an autonomous vehicle cannot wait for a round trip to a regional data centre. Bandwidth: a factory or a city full of cameras produces more data than it is economic to transmit, so it must be reduced where it is generated. And data residency: increasingly, regulation requires that certain data not leave a jurisdiction or a site at all. What makes edge cloud a standards problem is that it inherits the cloud's management model - elastic, orchestrated, multi-tenant - and applies it to infrastructure that is distributed across thousands of small sites, physically insecure, and often unattended.

This document provides the overall architecture of edge cloud, and specifies edge cloud infrastructure, infrastructure services, platform services, application services, etc. Technical requirements. This document is intended to provide guidance for the design, development, and deployment of edge cloud systems for cloud service providers, and to help edge cloud users understand, adopt, and Provide support for the construction of edge cloud and provide a reference for the evaluation of corresponding edge cloud products and services.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 22239 Information security technology Network security level protection basic requirements

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Central Cloud A form of cloud computing that is deployed in traditional data centers and is provisioned and managed in an on-demand self-service manner.

3.2 edge cloud A form of cloud computing that provides elastically scalable services at the

network edge close to things and data sources, and collaborates with the central cloud.

3.3 edge cloud infrastructure The edge devices and network environment required to deploy edge cloud at the edge of the network.

3.4 edge cloud node Provide edge nodes for various edge cloud services.

Note. Such as several servers, MEC, etc.

3.5 Platform as a service; PaaS A cloud service that provides the ability to deploy, manage, and run applications. [Source: GB/T 35301-2017, 3.1.1, modified]

4 Abbreviations

The following abbreviations apply to this document.