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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44270-2024

Technical requirement for registration of Chinese domain name

中文域名注册技术要求

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This document is under the jurisdiction of the National Communications Standardization Technical Committee (SAC/TC485). This document was drafted by: China Internet Network Information Center, Jinan University, Computer Network Information Center of Chinese Academy of Sciences, Guangdong Yingshiji Computer Technology Co., Ltd., China Academy of Information and Communications Technology, Tsinghua University, China Telecom Corporation Limited, China Communications Standards Association, China Unicom Group Co., Ltd., China Mobile Communications Group Co., Ltd. The main drafters of this document are: Li Hongtao, Yao Jiankang, Weng Jian, Geng Guanggang, Yang Xue, Li Yanbiao, Duan Haixin, Zhou Linlin, Dong Kejun, Yan Zhiwei, Sha Xiaoshuang, Zhang Man, Fu Yu, Liu Yue, Long Chun, Zhao Jing, Kong Lingfei, Wang Chao, Sun Le, Wu Xiucheng,

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1 Scope

GB/T 44270-2024 sets the technical requirements for registering Chinese domain names. Registration is where the hardest of the internationalised domain name problems has to be solved: because simplified and traditional Chinese forms of the same word are equivalent to a user but distinct as strings, a registry that treats them as separate names hands the same brand to two registrants, and one that bundles them has to define exactly which variants are bundled and how they are activated. The standard covers the transformation and normalisation of a Chinese domain name, then the registration requirements: the permitted character repertoire, the variant table and the bundling and reservation rules derived from it, the validation performed at registration, the encoding to the ACE form, the registry and registrar responsibilities, the registration data and its exchange, the renewal, transfer and deletion lifecycle, and the requirements on the systems that implement all of it. It took effect on 23 August 2024.

This document specifies the technical requirements for domain name transcoding mechanism, generation mechanism and domain name registration agreement for Chinese domain name registration. This document is applicable to domain name registration management institutions at all levels, domain name registration service providers, and software manufacturers who develop applications that support Chinese domain names. Use or service, etc.

2 Normative references

The contents of the following documents constitute 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 to This document.

GB/T 44266-2024 General Technical Requirements for Chinese Domain Names

3 Terms, definitions and abbreviations

3.1 Terms and Definitions The following terms and definitions apply to this document.

3.1.1 Universal character encoding UNICODE encoding Characters are identified by their position or code point, giving each character a unique number.

Note. The universal character encoding of this document adopts the set of ISO / IEC 10646 universal character encodings called the universal character set.

3.1.2 Domain name field domainnamelabel The parts of a domain name separated by

separators. dot or a Chinese period in a Chinese domain name.

3.1.3 Domain name field containing Chinese characters.

3.1.4 Chinese domain name Chinese domain name Domain names containing Chinese domain name fields.

3.1.5 A protocol for using or implementing Chinese domain names in applications and certain application environments.

Note. It is allowed to use certain LDH characters (starting with a special prefix) to represent non-LDH characters; it does not change existing name servers, resolvers, or protocol It is independent of the lower layer protocol and does not require changing the existing network structure.