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Technical requirement for resolution of Chinese domain names

中文域名解析技术要求

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Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviations	1
3.1 Terms and Definitions	1
3.2 Abbreviations	2
4 Analysis system	2
4.1 CDNA	2
4.2 Application requirements and applicability	3
4.3 Character Conversion Operations	3
4.4 Typical applications using DNS	7
References	9

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 is required.

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.

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Technical requirements for Chinese domain name resolution

1 Scope

This document specifies the resolution system and technical requirements for using Chinese domain names on the Internet system.

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. Or services, etc.

2 Normative references

This document has no normative references.

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1 UNICODE encoding

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

Note. For example, U 4E96 refers to the character at position 4E96 in the universal character set. The universal character encoding used in this document is found in GB/T 13000, Universal The collection of character encodings is called the universal character set.

3.1.2 delimiter

LDH?An English period in a DNS domain name or a Chinese period in a Chinese domain name.

3.1.3 Domain name field domain label

The parts of a domain name separated by separators.

3.1.4 Chinese domain name field Chinese domain label; CDL

Domain name field containing Chinese characters.

3.1.5 Chinese domain name; CDN

Domain names containing Chinese domain name fields.

3.1.6 resolver

The application proxy service program receives the domain name query request from the application and sends it to the domain name server, and receives the response from the domain name server.

Reply information and then send the result to the application.

3.1.7

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