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Blockchain and distributed ledger technology-General service guidelines for preserve evidence

区块链和分布式记账技术 存证通用服务指南

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

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Introduction

In recent years, driven by policy, law, technology, market and other aspects, blockchain technology has accelerated its transformation from virtuality to reality, and the overall development pattern has initially taken shape:

form: The construction of blockchain standards is of great significance to China's formation of a digital economic industrial ecology and improvement of industry governance and public service levels:

Blockchain certificate is an electronic data certificate that realizes multi-node consensus based on blockchain technology, which can ensure the integrity of electronic data information on the chain:

integrity and authenticity: Based on the consensus mechanism, compared with centralized systems, blockchain certification adopts a multi-party certification method, and electronic data storage certificates Once the information is on the chain, it cannot be tampered with, making it more authentic and credible: Based on cross-chain technology, blockchain certification can further ensure the security of electronic data information:

Trusted sharing improves business collaboration efficiency:

With the development of blockchain technology, especially alliance chain technology, blockchain evidence storage has been widely used in judicial evidence collection, copyright confirmation, Various fields including commodity traceability, supply chain finance, e-government, e-commerce, etc: Due to the lack of unified standards, blockchain certification applications There are problems such as irregular information uploading process and uneven service quality: As a result, the validity of the stored electronic data has not been universally recognized:

Yes, there is an urgent need for unified standards to standardize the construction of blockchain certificate application systems:

This document provides a general service guide for various industries to use blockchain certification technology, and can standardize electronic data based on blockchain technology:

The certification process is used to guide organizations or institutions to establish, implement and improve the blockchain certification application system, and promote the healthy and orderly development of the industry:

Blockchain and distributed accounting technology General Service Guide for Certificate Deposits

1 Scope

This document establishes the blockchain certification application service model, including relevant parties, validity principles, certification process, data guide, and service guide:

and security guides, etc:, providing a general service guide for certificate storage based on blockchain technology: This document applies to:

a) Standardize the electronic data certification process based on blockchain technology;

b) Guide organizations or institutions to establish, implement and improve blockchain certification application systems;

c) Provide reference for organizations or institutions planning to build a blockchain certificate application system:

2 Normative reference documents

GB/T 22239-2019

GB/T 25069-2022

GB/T 32399-2015

GB/T 35273-2020

GB/T 43572-2023

3 Terms and definitions

The following terms and definitions defined in GB/T 25069-2022, GB/T 32399-2015, GB/T 43572-2023 apply to this document: 3:1 blockchain blockchain A distributed ledger formed by appending consensus-confirmed blocks in sequence using cryptographic links: [Source: GB/T 43572-2023,3:6] 3:2 electronic dataelectronicdata Information generated, sent, received or stored by electronic means: 3:3 preserveevidence The act of preserving and verifying electronic data through technical means to ensure its integrity, authenticity and traceability: 3:4 Electronic data storage for multi-node consensus based on blockchain technology: