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Exchange header envelope technical specification

交换标头封装包技术规范

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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.

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Introduction

Traditional data exchange technologies such as e-mail and electronic data interchange (EDI) have the disadvantages of being highly dependent on network communication methods, interfering with or restricting exchanges.

The lack of compatibility between documents and cloud platform big data exchange has affected the efficiency of data exchange.

The header-changing encapsulation packet technology is used for data transmission and exchange.

This document is formulated to enhance the efficiency of business data transmission and exchange in the administrative, commercial, transportation, industrial and other fields of China.

This document refers to the business information entity structure and entity data element in the UN/CEFACT file, and combines the The exchange header encapsulation technology constructed in this document is based on the practical experience and conventions of EDI and the "single window" for international trade.

Standard, adapt to various communication network types, clients, interface methods and other traditional standard protocols, with good openness and flexibility, and both open The document is based on the existing international trade industry.

It is a useful supplement and improvement to the business data standard system, which can better integrate with the international standards and will promote trade facilitation and a higher level of foreign opening up.

Release and play a positive role.

Exchange Header Encapsulation Packet Technical Specification

1 Scope

This document specifies the business information entity structure, basic business information entity, application requirements and evaluation methods of the exchange header encapsulation package.

This document applies to the transmission and exchange of data, electronic documents or messages and their combinations in the fields of administration, commerce, transportation, industry, etc.

For reference in other industries.

2 Normative references

GB/T 19256.5

GB/T 24639

GB/T 25061

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 exchangeheader

Exchange head Header information of an electronic document or message exchange file.

Note. The exchange header mainly includes information about the parties involved in the exchange and the scope of business.

3.2 Envelope

Business data is encapsulated according to communication protocols or custom rules to form a data packet for transmission or exchange.

3.3 [Source. GB/T 19256.5-2022, 3.12, modified]

A piece of business data or a set of business data with unique business semantics.

Note 1.BIE includes three types. BBIE, ASBIE and ABIE.

Note 2.Message assembly is the process of assembling BIE into a document that can be used to exchange business information.

3.4

A data packet is a set of interrelated envelopes, headers, payloads, and business information entities such as extension information and digital signatures.

Note. The Exchange Header Encapsulation Packet does not contain the electronic document or message itself.

3.5

A business information entity that expresses a single business characteristic of a specific object class in a specific business context.