



一种对电商店铺数据加密方法及系统

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Registered Patent Region	Patent No.	Description	Issued Date	Status
China	CN119155016B	一种对电商店铺数据加密方法及系统	30 Sep 2025	Granted
Hong Kong	HK30118137	一种对电商店铺数据加密方法及系统	6 Jun 2025	Granted

Stage of Technology Transfer: Commercially Viable Technology/ Product Ready for Sale

Research Area: Data Analytics, Data Processing, and Data Encryption

Abstract

The present invention relates to the field of data encryption and discloses an encryption method for e-commerce store data. The method comprises the following steps: obtaining the data to be encrypted, re-encoding the characters in the sensitive fields of the data using integers ranging from 0 to 63, and representing each re-encoded character with 6-bit binary values to produce re-encoded sensitive field data. Data blocks of 64 bits or their multiples are encrypted using the AIFT_3DES encryption algorithm, resulting in encrypted 64-bit or multi-bit data blocks. The encrypted data is then output, stored, and access to the encrypted data is restricted based on permissions. The technical solution provided by this invention ensures that the length of the encrypted sensitive fields remains unchanged, allows the data to be displayed as visible characters, and guarantees data security.

摘要

本发明涉及数据加密领域，公开了一种电商店铺数据加密方法，包括：获取待加密数据的数据信息，将待加密数据中的敏感字段中的字符，使用 0 到 63 的整数进行重新编码，并将每个重新编码后的字符用 6 位二进制表示，得到敏感字段重新编码后的数据；对 64 位及其倍数的数据块采用 AIFT_3DES 加密算法进行加密，得到加密后的 64 位及其倍数的数据块，输出加密后的数据，将加密数据进行数据存储并对加密数据的访问权限进行限制。通过本发明所提供的技术方案，可以实现使得敏感字段加密后的长度不变，并能用可视字符显示，且保证数据的安全。