

# **DATA ENCRYPTION METHOD, DATA DECRYPTION METHOD, AND RELATED APPARATUSES**

## **ABSTRACT**

A data encryption method includes: dividing, based on a preset dividing manner,  
5 to-be-encrypted plaintext data into multiple plaintext data blocks that do not have exactly the  
same data length; for each plaintext data block, sequentially determining that an encryption  
algorithm corresponding to the plaintext data block is an encryption algorithm corresponding  
to a preset length interval within which a data length of the plaintext data block falls;  
generating, based on the encryption algorithm corresponding to the plaintext data block and  
10 by using a key corresponding to the plaintext data block, a ciphertext data block  
corresponding to the plaintext data block, where a larger value in the preset length interval  
indicates lower security strength of the encryption algorithm corresponding to the preset  
length interval; and combining multiple generated ciphertext data blocks according to a  
sequence of the multiple plaintext data blocks that are obtained by means of the dividing, to  
15 obtain ciphertext data that is obtained after the to-be-encrypted plaintext data is encrypted.

FIGURE 1