

ABSTRACT

Disclosed in the embodiments of the present application are a data processing method and apparatus based on a blockchain key, and a device and a storage medium. The method comprises: acquiring communication channels by means of which communication with N clients is separately performed, and on the basis of the N communication channels, separately performing key shard negotiation with the N clients, so as to obtain a local private-key shard and a complete public key; receiving signature requests sent by M-1 clients among the N clients, and acquiring identity association information from the M-1 signature requests; if each piece of the identity association information is legitimate identity information, determining, as a target client, a client among the M-1 clients which is used for initiating a blockchain service, and acquiring service execution data associated with the target client; and if the service execution data conforms to a risk management strategy corresponding to the identity association information of the target client, participating, together with the M-1 clients, in joint signature processing for the blockchain service. By means of the embodiments of the present application, the risk probability during the use of a digital asset can be reduced.

FIG. 3