

ABSTRACT

BLOCKCHAIN-BASED METHOD AND SYSTEM FOR SDP ACCESS CONTROL

Provided in embodiments of the present disclosure are a blockchain-based method and system for SDP access control. An SDP connection accepting host transmits information of the SDP connection accepting host and a supported connection policy to a blockchain system node, performs blockchain node verification and consensus, and records in a blockchain ledger; an SDP connection initiating host submits an identity authentication request to the blockchain system node; the blockchain system node verifies information of the identity authentication request, and searches for a list of SDP connection accepting hosts accessible to the SDP connection initiating host, and returns to the SDP connection initiating host; the SDP connection initiating host initiates a connection request, the connection request comprising a signature of the blockchain system node with respect to the SDP connection accepting hosts; the SDP connection accepting host verifies the connection request initiated by the SDP connection initiating host and provides an access service upon successful verification. The embodiments of the present disclosure prevent an SDP controller from coming under a DDoS attack and prevent the SDP controller from implementing an incorrect authorization.

Figure 4