Abstract

A method for source address authentication, applied to a sending party, where the sending party uses an NLP stack, the method includes: encapsulating a signature of the sending party, an NLP source address, to-be-sent data, a serial number for preventing replay attack and an NLP destination address into an NLP data packet according to a data transmission request; where the signature of the sending party is generated using a sending party private key of the sending party, the NLP destination address is a receiving party public key of a receiving party, the NLP source address is a sending party public key of the sending party, and the receiving party uses the NLP stack; sending the NLP data packet to the receiving party, for the receiving party to verify the signature of the sending party using the signature of the sending party, record the serial number, and obtain the to-be-sent data.

Fig. 8C