

CLAIMS

1. A method for acquiring an Internet Protocol (IP) address, the method comprising:
 - receiving, by a network side device, a first request message of a first protocol sent by a terminal, the first request message comprising an access request address (S101) (S201) (S301);
 - transmitting, to a server, the first request message of the first protocol (S303);
 - receiving, from the server, a web page comprising a scripting language code, the web page being based on the first request message of the first protocol (S102), (S202), (S304);
 - transmitting, to the terminal, the web page (S102), (S202);
 - receiving, from the terminal, a second request message for establishing a communication connection by running the scripting language code (S103), (S203);
 - establishing the communication connection to the terminal based on the second request message (S104), (S203);
 - receiving, from the terminal, a data packet of a second protocol generated based on the scripting language code by using the communication connection (S204); and
 - determining a first IP address of the terminal based on the data packet (S105).
2. The method of claim 1, wherein the determining the first IP address of the terminal comprises:
 - determining a source IP address for sending the data packet of the second protocol;
 - adding the source IP address to a response packet of the second protocol, and transmitting the response packet of the second protocol to the terminal; and
 - receiving an IP address transmitted by the terminal based on the source IP address comprised in the response packet of the second protocol, and using the transmitted IP address as the first IP address of the terminal obtained by using the communication connection.
3. The method of claim 1, wherein the method further comprises:
 - determining a second IP address of the terminal based on the first request message of the first protocol (S312); and
 - performing risk control processing on the terminal based on the first IP address and the second IP address (S313).

4. The method of claim 3, wherein performing risk control processing comprises:
determining whether an inconsistency between the first IP address and the second IP address exists; and
in response to determining that the inconsistency between the first IP address and the second IP address exists, checking a historical activity record of the first IP address.
5. The method of claim 2, wherein the first protocol comprises the Hypertext Transfer Protocol (HTTP);
the scripting language code comprises the JavaScript code;
the communication connection comprises the Web Real-Time Communication (WebRTC) connection; and
the second protocol comprises the User Datagram Protocol (UDP).
6. The method of any of the claims 1 to 5, wherein the terminal comprises one of a mobile phone, a personal computer (PC), and a tablet computer.
7. The method of any of the claims 1 to 6, wherein the web page comprises access to a bank account.
8. The method of claim 1, wherein the network side device is configured to determine an authentic IP address of the terminal, using the authentic IP address as the first IP address of the terminal, and to send the first IP address of the terminal to the network side device (S310).
9. The method of claim 8, wherein the network side device determines the authentic IP address by establishing a masqueraded communication connection.
10. An apparatus for acquiring an Internet Protocol (IP) address, the apparatus comprising a plurality of modules configured to perform the method of any one of claims 1 to 9.