WIRELESS NETWORK TYPE DETECTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE

TECHNICAL FIELD

[0001] The present application relates to the field of communication technology, and in particular, to a wireless network type detection method and apparatus, and an electronic device.

BACKGROUND

[0002] With the development of the mobile Internet, accessing a wireless network through Wi-Fi has become more and more frequent for electronic devices. But at the same time, Wi-Fi security issues have become more and more prominent. Electronic devices may connect to unsecured Wi-Fi hotspots, causing personal information leaks, password leaks, or account theft.

[0003] To facilitate user connections and allow more users to access unsecured Wi-Fi hotspots, most unsecured Wi-Fi hotspots do not set login passwords. Therefore, currently, many security-tool applications will check, after an electronic device connects to Wi-Fi, whether the current Wi-Fi requires a password for connection. If no password is required for connection, the security-tool applications will block the electronic device from accessing the Wi-Fi hotspot, or display a security prompt. However, sometime after connecting to the password-free Wi-Fi hotspot, users are still required to have secondary login verification. The secondary login verification means that although a device does not need a password to connect to a Wi-Fi hotspot, a login screen will pop up on the device when accessing the Internet, requiring the user to enter a username and password to access the Internet.

SUMMARY

[0004] Based on this, the present application provides a wireless network type detection method and apparatus, and an electronic device.

[0004a] According to one aspect, the present application provides a method for detection of a wireless network type performed by an electronic device. The method includes: determining whether a currently connected wireless network requires a password for accessing the Internet through the wireless network based on at least one specified network address; in response to determining that no password is required, accessing the specified

network address; determining whether the currently connected wireless network requires a secondary login verification by determining whether the specified network address can be successfully accessed; determining that the currently connected wireless network is an unsecured network if the currently connected wireless network does not require a password and does not require a secondary password; and providing a security risk warning to a user of the electronic device or automatically blocking access by the electronic device to the currently connected wireless network, if the currently connected wireless network is unsecured network.

[0004b] According to another aspect, the present application provides an electronic device including a processor and a memory. The memory is configured to store an instruction that can be executed by the processor, wherein the processor is configured to: determine whether a currently connected wireless network requires a password for accessing a service through the wireless network based on the specified network address; after determining that no password is required, access at least one specified network address; determine whether the currently connected wireless network requires secondary login verification, by determining whether the specified network address can be successfully accessed; determine that the currently connected wireless network is an unsecured network if the currently connected wireless network does not require a password and does not require a secondary password; and provide a security risk warning to a user of the electronic device or automatically blocking access by the electronic device to the currently connected wireless network, if the currently connected wireless network is unsecured network.

[0005] A wireless network type detection method includes: determining whether a currently connected wireless network requires a password for connection; after determining that no password is required, accessing at least one specified network address based on the specified network address; and determining, by determining whether the specified network address can be successfully accessed, whether the currently connected wireless network requires secondary login verification.