Claims

1. A method implemented at a network device for identifying a type of a wireless hotspot, comprising:

in response to receiving a type determination request for a first wireless hotspot, obtaining information of the first wireless hotspot, wherein the type determination request is configured to request that a type of the first wireless hotspot be provided;

searching for a second wireless hotspot which is identical or similar to the first wireless hotspot based on the information of the first wireless hotspot and information of multiple second wireless hotspots in a preset set of hotspots, wherein a type of the second wireless hotspot is an open wireless hotspot with authentication required; and

in response to locating a second wireless hotspot which is identical or similar to the first wireless hotspot, identifying the type of the first wireless hotspot as an open wireless hotspot with authentication required, wherein the second wireless hotspot similar to the first wireless hotspot comprises:

a second wireless hotspot with an identifier identical to that of the first wireless hotspot and with a provider source field similar to that of the first wireless hotspot;

a second wireless hotspot with an identifier identical to that of the first wireless hotspot and with location information indicating that the second wireless hotspot is in a same area as the first wireless hotspot; or

a second wireless hotspot with an identifier similar to that of the first wireless hotspot and with location information indicating that the second wireless hotspot is in a same area as the first wireless hotspot.

2. The method according to claim 1, wherein the type determination request comes from a terminal, and wherein the type determination request comprises an identifier of the first wireless hotspot scanned by the terminal;

the method further comprising: in response to the type of the first wireless hotspot being identified as an open wireless hotspot with authentication required, feeding identification information of the first wireless hotspot and a tag corresponding to the

identification information back to the terminal, wherein the tag is configured to indicate that the type of the first wireless hotspot is an open wireless hotspot with authentication required.

3. The method according to claim 1, before obtaining the information of the first wireless hotspot, the method further comprising:

obtaining connection data from the terminal which is generated based on a connection operation on the second wireless hotspot by the terminal; and

in response to the connection data indicating that authentication is required to connect to the second wireless hotspot, identifying the type of the second wireless hotspot as the open wireless hotspot with authentication required, and adding the second wireless hotspot into the set of hotspots.

4. The method according to claim 1, wherein the information of the first wireless hotspot ~~or the second wireless hotspot~~ comprises at least one of:

an identifier of the first wireless hotspot ~~or the second wireless hotspot~~;

location information of the first wireless hotspot ~~or the second wireless hotspot~~;

a provider source field of the first wireless hotspot; ~~or the second wireless hotspot.~~

and the information of the second wireless hotspot comprises at least one of:

an identifier of the second wireless hotspot;

location information of the second wireless hotspot;

a provider source field of the second wireless hotspot.

~~5. The method according to claim 4, wherein the second wireless hotspot similar to the first wireless hotspot comprises:~~

~~a second wireless hotspot with an identifier identical to that of the first wireless hotspot and with a provider source field similar to that of the first wireless hotspot;~~

~~a second wireless hotspot with an identifier identical to that of the first wireless hotspot and with location information indicating that the second wireless hotspot is in a same area as the first wireless hotspot; or~~

~~a second wireless hotspot with an identifier similar to that of the first wireless hotspot and with location information indicating that the second wireless hotspot is in a~~

~~same area as the first wireless hotspot.~~

~~6~~5. The method according to claim ~~5~~1, wherein the location information comprises a hash code of a geographic location, and wherein the location information indicating that the second wireless hotspot is in the same area as the first wireless hotspot comprises:

the hash code of the geographic location of the first wireless hotspot having an area field identical to that of the second wireless hotspot.

~~7~~6. The method according to claim ~~5~~1, wherein the second wireless hotspot with an identifier similar to that of the first wireless hotspot comprises: an Edit Distance between the identifier of the first wireless hotspot and the identifier of the second wireless hotspot is below a preset similarity threshold.

~~8~~7. The method according to claim 3, wherein the step of in response to the connection data indicating that authentication is required to connect to the second wireless hotspot, identifying the type of the second wireless hotspot as an open wireless hotspot with authentication required, and adding the second wireless hotspot into the set of hotspots comprising:

in response to the connection data indicating that authentication is required to connect to the second wireless hotspot and connection time indicated by the connection data being below a preset time threshold, identifying the type of the second wireless hotspot as an open wireless hotspot with authentication required, and adding the second wireless hotspot into the set of hotspots.

~~9~~8. The method according to claim 1, wherein after identifying the type of the first wireless hotspot as an open wireless hotspot with authentication required, the method further comprising:

in response to obtaining connection data from the terminal which is generated based on a connection operation on the first wireless hotspot by the terminal, updating the type of the first wireless hotspot, wherein the connection data is configured to indicate that a password is required to connect to the first wireless hotspot, or that authentication is required to connect to the first wireless hotspot, or that it is allowed to connect to the first

wireless hotspot directly, wherein the type of the first wireless hotspot comprises an encrypted wireless hotspot with a password required, an open wireless hotspot with authentication required, or an open wireless hotspot without authentication required.

~~10~~9. A computer-readable storage medium storing instructions, wherein the instructions, when executed by one or more processors, causing the one or more processors to perform ~~are executed according to~~ the method of any one of claims 1 to ~~9~~8.

~~11~~10. A network device ~~comprising a processor~~, wherein ~~the processor executes instructions according to the method of any one of claims 1 to 9.~~ comprising:

one or more processors; and

a memory storing computer readable instructions, wherein the computer readable instructions, when executed, cause the processor to perform the method of any one of claims 1 to 8.