CLAIMS

1. A method for a device to access a network, comprising:

generating, by an access point, a broadcast frame, wherein the broadcast frame comprises a feature information of a ~~group of~~ network access devices, ~~wherein~~ and the feature information ~~comprises~~ is used for indicating an identity information of the ~~group of~~ network access devices; and

broadcasting, by the access point, the broadcast frame, so that a specific network access device, having identity information that ~~matches~~ contains the ~~identity~~ feature information in the broadcast frame, initiates a network access procedure to the access point upon receiving the broadcast frame, wherein the identity information of the network access device comprises a Media Access Control (MAC) address of the network access device,

wherein the feature information in the broadcast frame ~~wherein the identity information of the group of network access devices~~ comprises a value of one specific bit in the Media Access Control (MAC) addresses of the ~~group of~~ network access devices, or values of multiple specific bits ~~in~~ of the MAC addresses of the ~~group of~~ network access devices; or a result value obtained by performing a specific operation on a value of one specific bit ~~in~~ of the MAC addresses of the ~~group of~~ network access device, or result values obtained by performing a specific operation on values of multiple specific bits ~~in~~ of the MAC addresses of the ~~group of~~ network access device.

2. The method according to claim 1, wherein the feature information is valid within an access duration corresponding to the broadcast frame.

3. The method according to any one of claims 1 to 2, wherein the broadcasting, by the access point, the broadcast frame comprises:

within a certain period of time, broadcasting, by the access point, M broadcast frames which carry N pieces of feature information, wherein each of the M broadcast frames carries one of the N pieces of feature information, N is an integer greater than or equal to 1, and M is an integer greater than or equal to N; and sets of network access devices having a feature indicated by one of the N pieces of feature information constitute a whole set of all network access devices.

4. A method for a device to access a network, comprising:

receiving, by a first network access device, a broadcast frame broadcast by an access point, wherein the broadcast frame comprises feature information of a ~~group of~~ network access devices, and ~~wherein~~ the feature information is used for indicating an ~~comprises~~ identity information of the ~~group of~~ network access devices, wherein the identity information of the network access device

comprises a Media Access Control (MAC) address of the network access device;

determining, by the first network access device, whether identity information of the first network access device ~~matches~~ contains the ~~identity information indicated by the~~ feature information in the received broadcast frame, and if the identity information of the first network access device ~~matches~~ contains the ~~identity information indicated by the~~ feature information in the received broadcast frame, initiating a network access procedure to the access point,

wherein the ~~identity~~ feature information in the broadcast frame ~~of the group of network access devices~~ comprises a value of one specific bit in the MAC address of the network access device, or values of multiple specific bits in the MAC address of the network access device; and

the determining, by the first network access device, whether the identity information of the first network access device ~~matches~~ contains ~~the identity information indicated by~~ the feature information in the received broadcast frame specifically comprises:

determining, by the first network access device, whether in a MAC address of the first network access device, a value of one specific bit is a value indicated by ~~the identity information indicated by~~ the feature information in the received broadcast frame, or values of multiple specific bits are values indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame; or

the feature ~~indicated by the identity~~ information is that: a result value obtained by performing a specific operation on a value of one specific bit in the MAC address of the first network access device is a value indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame, or result values obtained by performing a specific operation on values of multiple specific bits in the MAC address of the first network access device are values indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame; and

the determining, by the first network access device, whether the first network access device has the ~~identity information indicated by the~~ feature information in the received broadcast frame specifically comprises:

determining, by the first network access device, whether in the MAC address of the first network access device, after the specific operation is implemented, the result value of the value of the specific bit is the value indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame, or the result values of the values of the multiple specific bits are the values indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame.

5. The method according to claim 4, wherein the feature information is valid within an access duration corresponding to the broadcast frame.

6. An access point, comprising:

a generating module, configured to generate a broadcast frame, wherein the broadcast frame comprises feature information of a ~~group of~~ network access devices~~,~~ wherein the feature information is used for indicating an ~~comprises~~ identity information of the ~~group of~~ network access devices; and

a broadcasting module, configured to broadcast the broadcast frame, so that a specific network access device having identity information that ~~matches~~ contains the ~~identity~~ feature information in the broadcast frame, initiates a network access procedure to the access point upon receiving the broadcast frame, wherein the identity information of the network access device comprises a Media Access Control (MAC) address of the network access device,

wherein the feature information in the broadcast frame~~wherein the identity information of the group of network access devices~~ comprises a value of one specific bit in Media Access Control (MAC) addresses of the ~~group of~~ network access device, or values of multiple specific bits in the MAC addresses of the ~~group of~~ network access devices; or a result value obtained by performing a specific operation on a value of one specific bit in the MAC addresses of the ~~group of~~ network access devices, or result values obtained by performing a specific operation on values of multiple specific bits in the MAC addresses of the ~~group of~~ network access device.

7. The access point according to claim 6, wherein

the broadcasting module is specifically configured to: within a certain period of time, broadcast M broadcast frames which carry N pieces of feature information, wherein each of the M broadcast frames carries one of the N pieces of feature information, N is an integer greater than or equal to 1, and M is an integer greater than or equal to N; and sets of network access devices separately having a feature indicated by the N pieces of feature information constitute a whole set of all network access devices.

8. A network access device, comprising:

an obtaining module, configured to receive a broadcast frame broadcast by an access point, wherein the broadcast frame comprises feature information of a ~~group of~~ network access devices, ~~wherein~~ and the feature information is used for indicating an ~~comprises~~ identity information of the

~~group of~~ network access devices, wherein the identity information of the network access device comprises a Media Access Control (MAC) address of the network access device;

a determining module, configured to determine whether identity information of the network access device ~~matches~~ contains ~~the identity information indicated by~~ the feature information in the received broadcast frame; and

an accessing module, configured to initiate a network access procedure to the access point, when a determination result of the determining module is yes,

wherein the ~~identity~~ feature information ~~of the group of network access devices~~ in the broadcast frame comprises a value of one specific bit in the Media Access Control (MAC) address of the network access device, or values of multiple specific bits in the MAC address of the network access device; and

the determining module is specifically configured to determine whether the value of the specific bit in the MAC address of the network access device is the value indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame, or the values of the multiple specific bits in the MAC address of the network access device are the values indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame; or

~~the identity information indicated by~~ the feature information in the received broadcast frame comprises: a result value obtained by performing a specific operation on a value of one specific bit in the MAC address of the network access device, or result values obtained by performing a specific operation on values of multiple specific bits in the MAC address of the network access device; and

the determining module is specifically configured to determine after the specific operation is implemented, the result value of the value of the specific bit in the MAC address of the network access device is the value indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame, or the result values of the values of the multiple specific bits in the MAC address of the network access device are the values indicated ~~by the identity information indicated~~ by the feature information in the received broadcast frame.

9. A wireless fidelity network system, comprising: an access point according to claim 6 or 7 and one or more network devices according to claim 8.