CLAIMS

1. A method performed by a user equipment, UE, comprising:

receiving information from a first base station;

determining, based on the information from the first base station, whether the first base station is associated with a different public land mobile network, PLMN, identifier than that of the UE; and

in response to the first base station being associated with a different PLMN identifier than that of the UE, associating a lowest priority value to a second base station in base station reselection, wherein the second base station is in a same frequency with the first base station.

2. The method of claim 1, further comprising:

barring the second base station, from base station selection or reselection.

3. The method of claim 1, further comprising:

receiving an instruction signal from the first base station to read system information of a neighboring base station, wherein the system information comprises a cell identity or a public land mobile network identity.

4. The method of claim 1, further comprising:

determining an anchor frequency resource based on a total number of paging frames associated with the UE and a number of paging occasions associated with the UE;

determining, sequentially starting with the anchor frequency resource, whether a frequency resource is to be used for paging among a predetermined set of possible frequency resources for paging.

5. The method of claim 1, further comprising:

sending, to the first base station, a supported band and a supported bandwidth for the UE.

6. A method performed by a first base station, comprising:

generating information comprising public land mobile network, PLMN, information of the first base station;

sending information to a user equipment, UE, wherein when the PLMN information indicates to the UE that the UE is associated with a different PLMN identifier than that of the first base station, the system information triggers the UE to associate a lowest priority value to a second base station in base station reselection, and wherein the second base station is in a same frequency with the first base station.

7. A non-transitory computer-readable medium having stored thereon computer-executable instructions for carrying out any one of the methods of claims 1 through 6.

8. A user equipment, UE, comprising:

a transceiver configured to:

receive information from a first base station; and

a processor configured to:

determine, based on the information from the first base station, whether the first base station is associated with a different public land mobile network, PLMN, identifier than that of the UE; and

in response to the first base station being associated with a different PLMN identifier than that of the UE, associate a lowest priority value to a second base station in base station reselection, wherein the second base station is in a same frequency with the first base station.

9. The UE of claim 8, wherein the processor is further configured to:

bar the second base station, from base station selection or reselection.

10. The UE of claim 8, wherein the transceiver is further configured to:

receive an instruction signal from the first base station to read system information of a neighboring base station, wherein the system information comprises a cell identity or a public land mobile network identity.

11. The UE of claim 8, wherein the processor is further configured to:

determine an anchor frequency resource based on a total number of paging frames associated with the UE and a number of paging occasions associated with the UE;

determine, sequentially starting with the anchor frequency resource, whether a frequency resource is to be used for paging among a predetermined set of possible frequency resources for paging.

12. The UE of claim 8, wherein the transceiver is further configured to:

send, to the first base station, a supported band and a supported bandwidth for the UE.

13. A first base station, comprising:

a processor configured to:

generate system information comprising public land mobile network, PLMN, information of the first base station; and

a transceiver configured to:

send information to a user equipment, UE, wherein when the PLMN information indicates to the UE that the UE is associated with a different PLMN identifier than that of the first base station, the system information triggers the UE to associate a lowest priority value to a second base station in base station reselection, and wherein the second base station is in a same frequency with the first base station.