CLAIMS

1. A communication method performed by a reduced capability, RedCap, user equipment, UE, or a chip in a RedCap UE, comprising:

receiving a master information block, MIB, wherein a *cellBarred* field in the MIB indicates whether a cell is barred;

if the *cellBarred* field in the MIB indicates the cell is not barred, and if a system information block 1, SIB 1, does not comprise a RedCap specific *intraFreqReselection* field, determining that the RedCap UE or the chip is allowed to perform an intra-frequency reselection operation, wherein the SIB 1 is received after the MIB; and

wherein the RedCap specific *intraFreqReselection* field indicates whether the RedCap UE or the chip is allowed to perform the intra-frequency reselection operation.

2. The method according to claim 1, wherein the RedCap UE is a RedCap UE with a 1Rx branch or with 2Rx branches.

3. The method according to claim 1 or 2, wherein the method further comprising:

if the *cellBarred* field in the MIB indicates the cell is not barred, and if the SIB 1 comprises the RedCap specific *intraFreqReselection* field, determining whether the RedCap UE or the chip is allowed to perform the intra-frequency reselection operation based on the RedCap specific *intraFreqReselection* field;

wherein the RedCap UE is a RedCap UE with a 1Rx branch, and a RedCap specific *cellBarred* field in the SIB 1 indicates the RedCap UE with 1RX branch is not allowed to camp on the cell.

4. The method according to claim 1 or 2, wherein the method further comprising:

if the *cellBarred* field in the MIB indicates the cell is not barred, and if the SIB 1 comprises the RedCap specific *intraFreqReselection* field, determining that whether the RedCap UE or the chip is allowed to perform the intra-frequency reselection operation based on the RedCap specific *intraFreqReselection* field;

wherein the RedCap UE is a RedCap UE with a 2Rx branches, and a RedCap specific *cellBarred* field in the SIB 1 indicates the RedCap UE with 2RX branches is not allowed to camp on the cell.

5. The method according to any one of claims 1 to 4, wherein the RedCap UE is in a radio resource control, RRC, idle mode or in an RRC inactive mode.

6. A communication method performed by a network device or a chip in a network device, comprising:

sending a master information block, MIB, wherein a *cellBarred* field in the MIB indicates

whether a cell is barred;

if the *cellBarred* field in the MIB indicates the cell is not barred, and if a system information block 1, SIB 1, does not comprise a reduced capability, RedCap, specific *intraFreqReselection* field, indicating that a reduced capability user equipment, RedCap UE, is allowed to perform an intra-frequency reselection operation, wherein the SIB 1 is sent (S440, S640) after the MIB; and

wherein the RedCap specific *intraFreqReselection* field indicates whether the RedCap UE is allowed to perform the intra-frequency reselection operation.

7. The method according to claim 6, wherein the RedCap UE is a RedCap UE with a 1Rx branch or with 2Rx branches.

8. The method according to claim 6 or 7, wherein the RedCap UE is in a radio resource control, RRC, idle mode or in an RRC inactive mode.

9. A communication apparatus, comprising:

a processor; and

an interface coupled to the processor, the interface is used to communicate with another apparatus;

when a program or instructions are executed by the processor, the method according to any one of claims 1 to 5 is implemented.

10. A communication apparatus, comprising:

a processor; and

an interface coupled to the processor, the interface is used to communicate with another apparatus;

when a program or instructions are executed by the processor, the method according to any one of claims 6 to 8 is implemented.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run, the method according to any one of claims 1 to 5 is implemented.

12. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run, the method according to any one of claims 6 to 8 is implemented.

13. A program product, wherein the program product comprises a computer program, and when the computer program is run, the method according to any one of claims 1 to 5 is implemented.

14. A program product, wherein the program product comprises a computer program, when the computer program is run, the method according to any one of claims 6 to 8 is implemented.