

WHAT IS CLAIMED IS:

1. A first apparatus comprising:

at least one processor; and

at least one memory comprising instructions stored thereon that, when executed by the at least one processor, cause the first apparatus to perform at least:

receiving, from a second apparatus, first downlink control information in a predefined downlink control information format, wherein the first downlink control information comprises a first indication regarding whether a cell off for entering a network energy saving mode is activated; and

receiving, from the second apparatus, second downlink control information in the predefined downlink control information format, wherein the second downlink control information comprises a second indication regarding whether a cell discontinuous operation is activated, the cell discontinuous operation comprises at least one of: a cell discontinuous transmission or a cell discontinuous reception,

wherein the first downlink control information and the second downlink control information are comprised in the same downlink control information message of the predefined downlink control information format, and

wherein the downlink control information message has a bit block for each serving cell of the first apparatus,

wherein a bit block for a primary cell has different bit fields in the predefined downlink control information format for the first indication and for the second indication, and

wherein a bit block for a secondary cell in the downlink control information format has the second indication but not the first indication.

2. The first apparatus of claim 1, wherein the instructions stored in the at least one memory, when executed by the at least one processor, further cause the first apparatus to perform:

receiving, from the second apparatus, a configuration on which bit blocks are configured with the first indication and second indication.

3. The first apparatus of claim 1, wherein the first apparatus is caused to perform a conditional handover based on the first indication.

4. The first apparatus of claim 3, wherein the first apparatus is caused to use a lower threshold for the conditional handover that is based on the first indication than for another handover.
5. The first apparatus of claim 1, wherein the predefined downlink control information (DCI) format is DCI format 2_9.
6. The first apparatus of claim 1, wherein the instructions stored in the at least one memory, when executed by the at least one processor, further cause the first apparatus to perform:
receiving, from the second apparatus, at least one higher layer configuration indicating at least one starting bit position for monitoring the first indication.
7. The first apparatus of claim 1, wherein the first apparatus comprises a terminal device, and the second apparatus comprises a network device.
8. A second apparatus comprising:
at least one processor; and
at least one memory comprising instructions stored thereon that, when executed by the at least one processor, cause the second apparatus to perform at least:
transmitting, to a first apparatus, first downlink control information in a predefined downlink control information format, wherein the first downlink control information comprises a first indication regarding whether a cell off for entering a network energy saving mode is activated; and
transmitting, to the first apparatus, second downlink control information in the predefined downlink control information format, wherein the second downlink control information comprises a second indication regarding whether a cell discontinuous operation is activated, the cell discontinuous operation comprises at least one of: a cell discontinuous transmission or a cell discontinuous reception,
wherein the first downlink control information and the second downlink control information are comprised in the same downlink control information message of the predefined downlink control information format, and
wherein the downlink control information message has a bit block for each serving cell of the first apparatus,
wherein a bit block for a primary cell has different bit fields in the predefined downlink control information format for the first indication and for the second indication, and

wherein a bit block for a secondary cell in the downlink control information format has the second indication but not the first indication.

9. The second apparatus of claim 8, wherein the instructions stored in the at least one memory, when executed by the at least one processor, further cause the second apparatus to perform:

transmitting at least one higher layer configuration indicating at least one starting bit position for monitoring the first indication.

10. The second apparatus of claim 8, wherein the first apparatus comprises a terminal device, and the second apparatus comprises a network device.

11. The second apparatus of claim 8, wherein the second apparatus is caused to transmit a configuration on which bit blocks are configured with the first indication and second indication.

12. The second apparatus of claim 8, wherein the predefined downlink control information (DCI) format is DCI format 2_9.

13. A method comprising:

receiving, at a first apparatus, from a second apparatus, first downlink control information in a predefined downlink control information format, wherein the first downlink control information comprises a first indication regarding whether a cell off for entering a network energy saving mode is activated; and

receiving, from the second apparatus, second downlink control information in the predefined downlink control information format, wherein the second downlink control information comprises a second indication regarding whether a cell discontinuous operation is activated, the cell discontinuous operation comprises at least one of: a cell discontinuous transmission or a cell discontinuous reception,

wherein the first downlink control information and the second downlink control information are comprised in the same downlink control information message of the predefined downlink control information format, and

wherein the downlink control information message has a bit block for each serving cell of the first apparatus,

wherein a bit block for a primary cell has different bit fields in the predefined downlink control information format for the first indication and for the second indication, and

wherein a bit block for a secondary cell in the downlink control information format has the second indication but not the first indication.

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14. The method of claim 13, wherein the first apparatus receives, from the second apparatus, a configuration on which bit blocks are configured with the first indication and second indication.

10 15. The method of claim 13, wherein the first apparatus performs a conditional handover based on the first indication.

16. The method of claim 15, wherein the first apparatus uses a lower threshold for the conditional handover that is based on the first indication than for another handover.

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17. The method of claim 13, wherein the predefined downlink control information (DCI) format is DCI format 2_9.