

CLAIMS

1. A terminal device comprising:

reception circuitry configured to

receive, from a base station device, first information for one or a plurality of first channel state information reports corresponding to one or a plurality of first channel state information processes on a first physical uplink channel in a first serving cell,

receive, from the base station device, second information for a plurality of second channel state information reports corresponding to a plurality of second channel state information processes on a second, physical uplink channel in a second serving cell;

transmission circuitry configured to

perform the one or the plurality of first channel state information reports in a first subframe, perform the plurality of second channel state information reports in the first subframe, wherein in a case that a total of a number of the one or the plurality of first channel state information reports and a number of the plurality of second channel state information reports in the first subframe exceeds a first certain number, a second certain number of the plurality of second channel state information reports of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are not updated,

the second certain number is a number obtained by subtracting the first certain number from the total of the number of the one or the plurality of first channel state information reports and the number of the plurality of second channel state information reports,

the one or the plurality of first channel state information reports are periodic channel state information reports, and

the plurality of second channel state information reports are periodic channel state information reports.

2. The terminal device according to claim 1,

wherein in a case that the total of the number of the one or plurality of first channel state information reports and the number of the plurality second channel state information reports exceeds a third certain number in the first subframe, a part of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are not updated based on a priority, and

the priority includes a serving cell index and/or a CSI process index.

3. The terminal device according to claim 1,

wherein the transmission circuitry is configured to report in the first serving cell, the first channel state information that is included in a first cell group including a primary cell, and

report in the second serving cell, the second channel state information that is included in a second cell group not including the primary cell, and

the first serving cell is the primary cell and the second serving cell is a Physical Uplink Control CHannel (PUCCH) secondary cell.

4. The terminal device according to claim 1, wherein the transmission circuitry is configured to assign in priority transmit power for reporting the first channel state information of the first cell group.

5. The terminal device according to claim 1,

wherein the second certain number of the plurality of second channel state information reports of the one or the plurality of first channel state information reports and the second channel state information that are not to be updated are determined based on a priority of a cell group, and

the cell group includes the first cell group and the second cell group.

6. A base station device comprising:

transmission circuitry configured to

transmit, to a terminal device, first information for one or a plurality of first channel state information reports corresponding to one or a plurality of first channel state information processes on a first physical uplink channel in a first serving cell,

transmit, to a terminal device, second information for a plurality of second channel state information reports corresponding to one or a plurality of second channel state information processes on a second physical uplink channel in a second serving cell;

reception circuitry configured to

receive the one or the plurality of first channel state information reports in a first subframe,

receive the plurality of second channel state information reports in the first subframe,

wherein in a case that a total of a number of the one or plurality of first channel state information reports and a number of the plurality second channel state information reports in the first subframe exceeds a first certain number, a second certain number of the plurality of second channel state information reports of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are dropped, and

the second certain number is a number obtained by subtracting the first certain number from the total of the number of the one or the plurality of first channel state information reports and the number of the plurality of second channel state information reports.

7. The base station device according to claim 6,

wherein in a case that the total of the number of the one or plurality of first channel state information reports and the number of the plurality second channel state information reports exceeds a third certain number in the first subframe, a part of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are dropped based on a priority, and

the priority includes a serving cell index and/or a CSI process index.

8. The base station device according to claim 6,

wherein the reception circuitry is configured to

receive in the first serving cell, the first channel state information that is included in a first cell group including a primary cell, and

receive in the second serving cell, the second channel state information that is included in a second cell group not including the primary cell, and

the first serving cell is the primary cell, and the second serving cell is a Physical Uplink Control CHannel (PUCCH) secondary cell.

9. The base station device according to claim 6, wherein the reception circuitry is configured to assign in priority with transmit power for reporting the first channel state information of the first cell group.

10. The base station device according to claim 6,

wherein the first channel state information reports and the second channel state information that are to be dropped are determined based on a priority of a cell group, and

the cell group includes the first cell group and the second cell group.

11. A communication method for a terminal device, the communication method comprising the steps of:

receiving, from a base station device, first information for one or a plurality of first channel state information reports corresponding to one or a plurality of first channel state information process on a first physical uplink channel in a first serving cell;

receiving, from the base station device, second information for a plurality of second channel state information reports corresponding to a plurality of second channel state information processes on a second physical uplink channel in a second serving cell;

performing the one or the plurality of first channel state information reports in a first subframe; and

performing the plurality of second channel state information reports in the first subframe, wherein

in a case that a total of a number of the one or the plurality of first channel state information reports and a number of the plurality of second channel state information reports in the first subframe exceeds a first certain number, a second certain number of the second channel state information reports of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are not updated,

the second certain number is a number obtained by subtracting the first certain number from the total of the number of the one or the plurality of first channel state information reports and the number of the plurality of second channel state information reports,

the one or the plurality of first channel state information reports are periodic channel state information report, and

the plurality of second channel state information reports are periodic channel state information reports.

12. A communication method for a base station device, the communication method comprising the steps of:

transmitting, to a terminal device, first information for one or a plurality of first channel state information reports corresponding to one or a plurality of first channel state information processes on a first physical uplink channel in a first serving cell;

transmitting, to the terminal device, second information for a plurality of second channel state information reports corresponding to a plurality of second channel state information processes on a second physical uplink channel in a second serving cell;

receiving the one or the plurality of first channel state information reports in a first subframe; and

receiving the plurality of second channel state information reports in the first subframe, wherein

in a case that a total of a number of the one or the plurality of first channel state information reports and a number of the plurality of second channel state information reports in the first subframe exceeds a first certain number, a second certain number of the second

channel state information reports of the one or the plurality of first channel state information reports and the plurality of second channel state information reports are dropped, and

the second certain number is a number obtained by subtracting the first certain number from the total of the number of the one or the plurality of first channel state information reports and the number of the plurality of second channel state information reports.