CLAIMS

Claim 1: A radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication terminal comprising:

a receiver which receives control information including information relating to measurement of measuring quality of a neighbor cell;

an extractor which extracts information on a subframe where the measurement should be performed, which is a subframe where only transmission of a signal from the relay node connected to the base station is performed, from the information relating to the measurement;

a measurement section which performs the measurement on a subframe basis, based on the extracted information on the subframe where the measurement should be performed; and

a transmitter which transmits a result of the measurement to the base station or the relay node.

Claim 2: The radio communication terminal according to claim 1, wherein

the extractor extracts information on a subframe which is the subframe where the measurement should be performed and is not an MBSFN subframe used as a backhaul in the relay node connected to the base station, from the information relating to the measurement, and

the measurement section performs the measurement in the subframe which is not the MBSFN subframe.

Claim 3: The radio communication terminal according to claim 2, wherein

the receiver receives the control information including the information relating to the measurement of measuring the quality of the neighbor cell including the information on the subframe where the measurement should be performed, from the base station or the relay node which is a connection destination of the radio communication terminal.

Claim 4: The radio communication terminal according to claim 1, wherein

the extractor extracts information on a subframe which is the subframe where the measurement should be performed and is not an MBSFN subframe used as a backhaul in a relay node which is the relay node

connected to the base station and belongs to a relay node group including a plurality of neighbor relay nodes, from the information relating to the measurement, and

the measurement section performs the measurement on a subframe basis on the basis of the extracted information on the subframe.

Claim 5: A radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication terminal comprising:

a receiver which receives a reference signal of a neighbor cell and control information relating to the radio communication terminal;

an extractor which extracts instruction information for performing measurement of measuring quality of the neighbor cell, from the control information;

a detector which detects a subframe where the measurement should be performed using the reference signal of the neighbor cell based on the extracted instruction information;

a measurement section which performs the measurement in the detected subframe where the measurement should be performed; and

a transmitter which transmits a result of the measurement to the base station or the relay node.

Claim 6: A radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication terminal comprising:

a receiver which receives a reference signal of a neighbor cell, information relating to measurement of measuring quality of the neighbor cell and control information on the radio communication terminal;

a first extractor which extracts, on a subframe basis, position information on a first subframe which is a candidate where the measurement should be performed in a relay node which is the relay node connected to the base station and belongs to a relay node group including a plurality of neighbor relay nodes, from the information relating to the measurement;

a detector which measures received power on a subframe basis in the relay node group based on the extracted position information on the first

subframe and the reference signal of the neighbor cell, and detects the relay node group which has the smallest change in a result of the measurement for the received power;

a second extractor which extracts information on a second subframe which is not an MBSFN subframe used as a backhaul in the relay node which belongs to the detected relay node group; and

a measurement section which performs the measurement, on a subframe basis, based on the extracted information on the second subframe.

Claim 7: A radio communication method used in a radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication method comprising:

receiving control information including information relating to measurement of measuring quality of a neighbor cell;

extracting information on a subframe where the measurement should be performed, which is a subframe where only transmission of a signal from the relay node connected to the base station is performed, from the information relating to the measurement;

performing the measurement on a subframe basis, based on the extracted information on the subframe where the measurement should be performed; and

transmitting a result of the measurement to the base station or the relay node.

Claim 8: A radio communication method used in a radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication method comprising:

receiving a reference signal of a neighbor cell and control information relating to the radio communication terminal;

extracting instruction information for performing measurement of measuring quality of the neighbor cell, from the control information;

detecting a subframe where the measurement should be performed using the reference signal of the neighbor cell based on the extracted instruction information;

performing the measurement in the detected subframe where the measurement should be performed; and

transmitting a result of the measurement to the base station or the relay node.

Claim 9: A radio communication method used in a radio communication terminal which is capable of communicating with a base station or a relay node, the radio communication method comprising:

receiving a reference signal of a neighbor cell, information relating to measurement of measuring quality of the neighbor cell and control information on the radio communication terminal;

extracting, on a subframe basis, position information on a first subframe which is a candidate where the measurement should be performed in a relay node which is the relay node connected to the base station and belongs to a relay node group including a plurality of neighbor relay nodes, from the information relating to the measurement;

measuring received power in the relay node group, on a subframe basis, based on the extracted position information on the first subframe and the reference signal of the neighbor cell, and detecting the relay node group which has the smallest change in a result of the measurement for the received power;

extracting information on a second subframe which is not an MBSFN subframe used as a backhaul in the relay node which belongs to the detected relay node group; and

performing the measurement on a subframe basis, based on the extracted information on the second subframe.

CLAIMS

1. A terminal apparatus comprising:

a receiving section configured to receive control information indicating subframes, for which a channel quality is measured; and

a measuring section configured to measure the channel quality for the subframes that said control information indicates,

wherein, out of subframes including a first subframe with no transmission of data by another cell and a second subframe with transmission of data by the other cell, the second subframe is included in the subframes that said control information indicates.

2. The terminal apparatus according to claim 1, wherein the other cell is neighbor cell.

3. The terminal apparatus according to claim 1, wherein the other cell causes interference.

4. The terminal apparatus according to claim 1, wherein a subframe other than a MBSFN (Multicast/Broadcast over Single Frequency Network) subframe is included in the subframes that said control information indicates.

5. The terminal apparatus according to claim 1, wherein said control information indicates the second subframe, out of subframes including the first subframe with no transmission of data by the other cell and the second subframe with transmission of data by the other cell, as being bit mapped.

6. The terminal apparatus according to claim 1, wherein said control information indicates the second subframe, out of subframes including the first subframe with no transmission of data by the other cell and the second subframe with transmission of data by the other cell, as being patterned.

7. The terminal apparatus according to claim 1, wherein the subframes that said control information indicates are different depending on a cell.

8. The terminal apparatus according to claim 1, wherein the measuring section measures the channel quality for a subframe, in which the other cell causes an interference, based on said control information.

9. The terminal apparatus according to claim 1, wherein the measuring section measures a reception power as the channel quality.

10. The terminal apparatus according to claim 1, wherein the measuring section measures a reception quality as the channel quality.

11. A communication method comprising:

receiving control information indicating subframes, for which a channel quality is measured; and

measuring the channel quality for the subframes that said control information indicates,

wherein, out of subframes including a first subframe with no transmission of data by another cell and a second subframe with transmission of data by the other cell, the second subframe is included in the subframes that said control information indicates.