CLAIMS

[1] A mobile communication method in which a mobile station performs a handover from a handover source cell under control of a handover source radio base station to a handover target cell under control of a handover target radio base station, the mobile communication method comprising the steps of:

transmitting, from the handover source radio base station to the handover target radio base station directly or through a switching center, a handover preparation signal including verification information on the handover target cell and a first cell other than the handover cell under control of the handover target radio base station;

performing, at the mobile station, a cell selection when a handover to the handover target cell has failed;

transmitting, from the mobile station to the handover target radio base station, a connection re-establishment request to the first cell including the verification information related to the first cell, when the first cell is selected in the cell selection; and

~~determining~~verifying, at the handover target radio base station, ~~whether or not~~the validity of the mobile station, by using the verification information related to the first cell transmitted by the handover source radio base station ~~matches~~ and the verification information related to the first cell transmitted by the mobile station.

[2] The mobile communication method according to claim 1, further comprising the step of:

transmitting, from the handover target radio base station to the mobile station, a connection re-establishment acknowledge signal, when the verification information related to the first cell transmitted by the handover source radio base station matches the verification information on the first cell transmitted by the mobile station; and

transmitting, from the handover target radio base station to the mobile station, a connection re-establishment reject signal, when the verification information related to the first cell transmitted by the handover source radio base station does not match the verification information on the first cell transmitted by the mobile station.

[3] A radio base station functioning as a handover target radio base station when a mobile station performs a handover from a handover source cell under control of a handover source radio base station to a handover target cell under control of the handover target radio base station, the radio base station comprising:

a receiver unit configured to receive, directly or through a switching center, verification information related to the handover target cell and a first cell other than the handover target cell under control of the handover target radio base station, the verification information included in a handover preparation signal transmitted by the handover source radio base station;

a receiver unit configured to receive a connection re-establishment request including the verification information related to the first cell from the mobile station,

when a handover to the handover target cell by the mobile station has failed; and

a determination unit configured to ~~determine whether or not~~verify the validity of the mobile station, by using the verification information related to the first cell transmitted by the handover source radio base station ~~matches~~ and the verification information related to the first cell transmitted by the mobile station.

[4] The radio base station according to claim 3, further comprising:

a transmitter unit configured to transmit a connection re-establishment acknowledge signal to the mobile station, when the verification information related to the first cell transmitted by the handover source radio base station matches the verification information on the first cell transmitted by the mobile station, and to transmit a connection re-establishment reject signal to the mobile station, when the verification information related to the first cell transmitted by the handover source radio base station does not match the verification information on the first cell transmitted by the mobile station.