CLAIMS

1. A system for communication between mobile bodies comprising:

a mobile body transmission device that is used for a first mobile body and successively transmits first mobile information as information about the first mobile body; and

a mobile body reception device that is used for a second mobile body and receives the first mobile information, wherein:

the mobile body transmission device includes:

an indirect transmitter that transmits information via a base station;

a direct transmitter that transmits information according to direct transmission; and

a transmission controller that controls the indirect transmitter and the direct transmitter to transmit an identical first mobile information; and

the mobile body reception device includes:

an indirect receiver that receives the first mobile information transmitted by the indirect transmitter via the base station; and

a direct receiver that directly receives the first mobile information transmitted by the direct transmitter;

wherein:

the transmission controller puts an identical identification code to the identical first mobile information to be transmitted from the indirect transmitter and the direct transmitter, and transmits the first mobile information; and

the mobile body reception device further includes:

a reception information acquirer that acquires the first mobile information from the indirect receiver when the indirect receiver receives the

first mobile information, and acquires the first mobile information from the direct receiver when the direct receiver receives the first mobile information;

an identity determiner that compares two pieces of the first mobile information, determines whether the first mobile information acquired by the reception information acquirer from the indirect receiver is identical to the first mobile information acquired by the reception information acquirer from the direct receiver, and determines whether two identification codes put to the two pieces of the first mobile information are identical; and

a mobile transmitter that transmits the first mobile information to a mobile controller used for the second mobile body when the identity determiner determines that the two pieces of the first mobile information are identical and the two identification codes are identical, and does not transmit the first mobile information, which is determined not to be identical, to the mobile controller used for the second mobile body when the identity determiner determines that the two identification codes are identical but the two pieces of the first mobile information are not identical;

further wherein:

when the reception information acquirer acquires the first mobile information from one of the indirect receiver and the direct receiver, and subsequently does not acquire the first mobile information within a predetermined wait time from an other of the indirect receiver and the direct receiver from which the reception information acquirer has not acquired the first mobile information, the mobile transmitter transmits an acquired first mobile information to the mobile controller without a determination result from the identity determiner.

2. The system for communication between mobile bodies according to claim 1, wherein:

the transmission controller simultaneously transmits the identical first mobile information to the indirect transmitter and the direct transmitter.

3. The system for communication between mobile bodies according to claim 1, wherein:

when the mobile transmitter transmits the first mobile information to the mobile controller without the determination result from the identity determiner, the mobile transmitter puts a flag, indicating that the identity determiner does not perform determination, to the first mobile information, and transmits the first mobile information to the mobile controller.

4. The system for communication between mobile bodies according to any one of claims 1 through 3, wherein:

the identification code is provided as time information of generating time for information to be transmitted.

5. The system for communication between mobile bodies according to claim 4, wherein:

the time information represents a current time based on Coordinated Universal Time.

6. The system for communication between mobile bodies according to any one of claims 1 through 5, comprising:

a center that receives the first mobile information transmitted by the indirect transmitter of the mobile body transmission device via the base station, and transfers a received first mobile information to the mobile body reception device used for the second mobile body disposed within a predetermined inter-mobile distance to the first mobile body using the mobile body transmission device.

7. A mobile body receiving control device that is used for a mobile body having: an indirect receiver receiving other-mobile information via a base station, the other-mobile information being transmitted from an other mobile body relating to the other mobile body; and a direct receiver directly receiving the other-mobile information, the mobile body receiving control device comprising:

a reception information acquirer that acquires the other-mobile information from the indirect receiver when the indirect receiver receives the other-mobile information, and acquires the other-mobile information from the direct receiver when the direct receiver receives the other-mobile information;

an identity determiner that compares two pieces of the other-mobile information, determines whether the other-mobile information acquired by the reception information acquirer from the indirect receiver is identical to the other-mobile information acquired by the reception information acquirer from the direct receiver, and determines whether two identification codes put to the two pieces of the other-mobile information are identical; and

a mobile transmitter that transmits the other-mobile information to a mobile controller used for the mobile body when the identity determiner determines that the two pieces of the other-mobile information are identical, and

does not transmit the other-mobile information, which is determined not to be identical, to the mobile controller used for the mobile body when the identity determiner determines that the two identification codes are identical but the two pieces of the other-mobile information are not identical;

when the reception information acquirer acquires the other-mobile information from one of the indirect receiver and the direct receiver, and subsequently does not acquire the other-mobile information within a predetermined wait time from an other of the indirect receiver and the direct receiver from which the reception information acquirer has not acquired the other-mobile information, the mobile transmitter transmits an acquired other-mobile information to the mobile controller without a determination result from the identity determiner.