

communicator,

a service memory (11M) that memorizes type of service available to the onboard terminal itself,

5 a service type determiner (F3) that determines, based on the service type information included in the service initiation information and on the type of service available to the onboard terminal itself stored in the service memory, whether the service provided by the service provider terminal is available to the onboard terminal itself,

10 a determination information acquirer (F4) that acquires determination information, the determination information being information about the onboard terminal itself and used to determine whether the onboard terminal itself is an onboard terminal targeted for the service from the service provider terminal, and

15 a service target determiner (F5) that determines, based on the target terminal information included in the service initiation information and on the determination information acquired by the determination information acquirer, whether the onboard terminal itself is the onboard terminal targeted for the service,

wherein:

20 when the service type determiner determines that the service provided by the service provider terminal is available to the onboard terminal itself and the service target determiner determines that the onboard terminal itself is the onboard terminal targeted for the service, the onboard service channel communicator initiates communication with the service provider terminal by
25 using the service channel; and

when the service type determiner determines that the service provided by the service provider terminal is not available to the onboard terminal itself or when the service target determiner determines that the onboard terminal itself is not the onboard terminal targeted for the service, the onboard service
30 channel communicator does not initiate communication with the service provider terminal by using the service channel,

wherein:

the target terminal information indicates a movement direction of the onboard terminal adapted to receive the service;

5 the determination information acquirer acquires a movement direction of the onboard terminal itself as the determination information;

when the movement direction of the onboard terminal acquired by the determination information acquirer coincides with the movement direction indicated by the target terminal information, the service target determiner determines that the onboard terminal itself is the onboard terminal targeted for the service; and

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when the movement direction of the onboard terminal itself does not coincide with the movement direction indicated by the target terminal information, the service target determiner determines that the onboard terminal is not the onboard terminal targeted for the service.

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2. A mobile communication system comprising:

at least one onboard terminal (1) that is used in a vehicle; and

at least one service provider terminal (2) that wirelessly communicates with the onboard terminal to perform a series of processes for providing a predetermined service to the onboard terminal,

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wherein the service provider terminal includes

a provider service channel communicator (G12) that communicates with the onboard terminal to provide the service by using any one of a plurality of preassigned service channels, and

25 a provider control channel communicator (G11) that distributes service initiation information for initiating communication on the service channel by using a preassigned control channel, the control channel being different from the service channels;

wherein the service initiation information includes

30 service type information that indicates type of the service,
service channel information that enables the onboard terminal

having received the service initiation information to identify, of the plurality of service channels, the service channel used for the service provider terminal to communicate with the onboard terminal, and

target terminal information indicative of a condition for the
5 onboard terminal targeted for the service,

wherein the onboard terminal includes

an onboard control channel communicator (F11) that communicates with the service provider terminal by using the control channel and receives at least the service initiation information,

10 an onboard service channel communicator (F12) that communicates with the service provider terminal by using one of the plurality of service channels determined by the service channel information included in the service initiation information received by the onboard control channel communicator,

15 a service memory (11M) that memorizes type of service available to the onboard terminal itself,

a service type determiner (F3) that determines, based on the service type information included in the service initiation information and on the type of service available to the onboard terminal itself stored in the service
20 memory, whether the service provided by the service provider terminal is available to the onboard terminal itself,

a determination information acquirer (F4) that acquires determination information, the determination information being information about the onboard terminal itself and used to determine whether the onboard
25 terminal itself is an onboard terminal targeted for the service from the service provider terminal, and

a service target determiner (F5) that determines, based on the target terminal information included in the service initiation information and on the determination information acquired by the determination information
30 acquirer, whether the onboard terminal itself is the onboard terminal targeted for the service,

wherein:

when the service type determiner determines that the service provided by the service provider terminal is available to the onboard terminal itself and the service target determiner determines that the onboard terminal itself is the
5 onboard terminal targeted for the service, the onboard service channel communicator initiates communication with the service provider terminal by using the service channel; and

when the service type determiner determines that the service provided by the service provider terminal is not available to the onboard terminal itself or
10 when the service target determiner determines that the onboard terminal itself is not the onboard terminal targeted for the service, the onboard service channel communicator does not initiate communication with the service provider terminal by using the service channel,

wherein:

15 the target terminal information indicates a movement speed range of the onboard terminal adapted to receive the service;

the determination information acquirer acquires a movement speed of the onboard terminal as the determination information;

when the movement speed of the onboard terminal acquired by the
20 determination information acquirer is within the movement speed range indicated by the target terminal information, the service target determiner determines that the onboard terminal is the onboard terminal targeted for the service; and

when the movement speed of the onboard terminal is outside the
25 movement speed range indicated by the target terminal information, the service target determiner determines that the onboard terminal is not targeted for the service.

3. The mobile communication system according to claim 1 or 2,
30 wherein

when communication on the service channel is already established with

a first service provider terminal, the onboard service channel communicator does not initiate communication with a second service provider terminal until the communication with the first service provider terminal terminates.

- 5 4. The mobile communication system according to claim 3, wherein:
the target terminal information indicates a service provision area, the
service provision area being an area where the onboard terminal to be provided
with the service is supposed to exist;
the determination information acquirer acquires a current position of
10 the onboard terminal as the determination information;
when the current position of the onboard terminal acquired by the
determination information acquirer is within the service provision area, the
service target determiner determines that the onboard terminal is the onboard
terminal targeted for the service; and
15 when the current position of the onboard terminal is outside the service
provision area, the service target determiner determines that the onboard
terminal is not the onboard terminal targeted for the service.

- 20 5. The mobile communication system according to claim 4, wherein:
while the onboard service channel communicator is communicating with
the service provider terminal by using the service channel, the service target
determiner successively determines whether the determination information
acquired by the determination information acquirer meets the condition
indicated by the target terminal information included in the service initiation
25 information that triggered initiation of the currently established communication
on the service channel; and
when the service target determiner determines that the determination
information does not meet the condition, the onboard service channel
communicator terminates the communication on the service channel with the
30 service provider terminal.

6. An onboard terminal (1) that performs a series of processes to receive a predetermined service by wirelessly communicating with a service provider terminal (2) adapted to provide the predetermined service, the onboard terminal comprising:

5 an onboard control channel communicator (F11) that communicates with the service provider terminal by using a preassigned control channel and receives service initiation information distributed from the service provider terminal; and

10 an onboard service channel communicator (F12) that communicates with the service provider terminal by using one of a plurality of preassigned service channels, the service channels being different from the control channel, wherein the service initiation information includes

 service type information that indicates type of the service provided by the service provider terminal,

15 service channel information that enables the onboard terminal to identify, of the plurality of service channels, the service channel used for the service provider terminal to communicate with the onboard terminal, and

 target terminal information that indicates a condition for a communication terminal targeted for the service,

20 wherein the onboard terminal further comprises

 a service memory (11M) that stores type of service available to the onboard terminal itself,

25 a service type determiner (F3) that determines, based on the service type information included in the service initiation information and on the type of service available to the onboard terminal itself stored in the service memory, whether the service provided by the service provider terminal is available to the onboard terminal itself,

30 a determination information acquirer (F4) that acquires determination information, the determination information being information about the onboard terminal itself and used to determine whether the onboard terminal itself is a communication terminal adapted to receive the service from the

service provider terminal, and

a service target determiner (F5) that determines, based on the target terminal information included in the service initiation information and on the determination information acquired by the determination information acquirer,
5 whether the onboard terminal itself is a communication terminal targeted for the service,

wherein:

when the service type determiner determines that the service provided by the service provider terminal is available to the onboard terminal itself and
10 the service target determiner determines that the onboard terminal itself is the communication terminal targeted for the service, the onboard service channel communicator initiates communication with the service provider terminal by using one of the service channels determined by the service channel information included in the service initiation information; and

15 when the service type determiner determines that the service provided by the service provider terminal is not available to the onboard terminal itself or when the service target determiner determines that the onboard terminal itself is not the communication terminal targeted for the service, the onboard service channel communicator does not initiate communication with the service
20 provider terminal by using the service channel determined by the service channel information included in the service initiation information, the service channel being one of the plurality of service channels,

wherein:

the target terminal information indicates a movement direction of the
25 onboard terminal adapted to receive the service;

the determination information acquirer acquires a movement direction of the onboard terminal itself as the determination information;

when the movement direction of the onboard terminal acquired by the determination information acquirer coincides with the movement direction
30 indicated by the target terminal information, the service target determiner determines that the onboard terminal itself is the onboard terminal targeted for

the service; and

when the movement direction of the onboard terminal itself does not coincide with the movement direction indicated by the target terminal information, the service target determiner determines that the onboard terminal is not the
5 onboard terminal targeted for the service.

7. An onboard terminal (1) that performs a series of processes to receive a predetermined service by wirelessly communicating with a service provider terminal (2) adapted to provide the predetermined service, the
10 onboard terminal comprising:

an onboard control channel communicator (F11) that communicates with the service provider terminal by using a preassigned control channel and receives service initiation information distributed from the service provider terminal; and

15 an onboard service channel communicator (F12) that communicates with the service provider terminal by using one of a plurality of preassigned service channels, the service channels being different from the control channel, wherein the service initiation information includes

20 service type information that indicates type of the service provided by the service provider terminal,

service channel information that enables the onboard terminal to identify, of the plurality of service channels, the service channel used for the service provider terminal to communicate with the onboard terminal, and

25 target terminal information that indicates a condition for a communication terminal targeted for the service,

wherein the onboard terminal further comprises

a service memory (11M) that stores type of service available to the onboard terminal itself,

30 a service type determiner (F3) that determines, based on the service type information included in the service initiation information and on the type of service available to the onboard terminal itself stored in the service memory,

whether the service provided by the service provider terminal is available to the onboard terminal itself,

a determination information acquirer (F4) that acquires determination information, the determination information being information about the onboard terminal itself and used to determine whether the onboard terminal itself is a communication terminal adapted to receive the service from the service provider terminal, and

a service target determiner (F5) that determines, based on the target terminal information included in the service initiation information and on the determination information acquired by the determination information acquirer, whether the onboard terminal itself is a communication terminal targeted for the service,

wherein:

when the service type determiner determines that the service provided by the service provider terminal is available to the onboard terminal itself and the service target determiner determines that the onboard terminal itself is the communication terminal targeted for the service, the onboard service channel communicator initiates communication with the service provider terminal by using one of the service channels determined by the service channel information included in the service initiation information; and

when the service type determiner determines that the service provided by the service provider terminal is not available to the onboard terminal itself or when the service target determiner determines that the onboard terminal itself is not the communication terminal targeted for the service, the onboard service channel communicator does not initiate communication with the service provider terminal by using the service channel determined by the service channel information included in the service initiation information, the service channel being one of the plurality of service channels,

wherein:

the target terminal information indicates a movement speed range of the onboard terminal adapted to receive the service;

the determination information acquirer acquires a movement speed of the onboard terminal as the determination information;

5 when the movement speed of the onboard terminal acquired by the determination information acquirer is within the movement speed range indicated by the target terminal information, the service target determiner determines that the onboard terminal is the onboard terminal targeted for the service; and

10 when the movement speed of the onboard terminal is outside the movement speed range indicated by the target terminal information, the service target determiner determines that the onboard terminal is not targeted for the service.