

server (16) or during communication with the server (16) and the controlled device (12).

[Item 12]

The remote control system (10) according to any one of
5 items 1 through 11, wherein

the controlled device (12) includes an electric lock (38), and

the second data includes, as the detail of remote control, data designating unlocking of the electric lock
10 (38).

[INDUSTRIAL APPLICABILITY]

[0084] The disclosure is applicable to a system for controlling a target device remotely.

[REFERENCE SIGNS LIST]

15 **[0085]** 10 remote control system, 12 delivery box, 14 user terminal, 16 server, 32 communication unit, 38 electric lock

[CLAIMS]

1. A remote control system comprising:

5 a controlled device that is remotely controlled; and
 a mobile communication terminal that performs wireless
communication with the controlled device, wherein

 the controlled device transmits, when accepting remote
control, first data to the communication terminal,

10 the communication terminal transmits second data
including a detail of remote control to the controlled device
in response to the first data, and

 the controlled device performs a process determined by
the detail of remote control included in the second data when
15 a time elapsed since the first data is transmitted until the
second data is received is less than a threshold value.

2. The remote control system according to claim 1,
wherein

20 the first data includes a random number determined by
the controlled device,

 the second data includes an authentication value
determined by the random number included in the first data,
and

25 the controlled device restricts execution of the
process determined by the detail of remote control included

in the second data in accordance with the authentication value included in the second data.

3. The remote control system according to claim 1 or 2,
5 further comprising:

a server connected to the communication terminal via a network, wherein

the communication terminal transfers the first data received to the server,

10 the server transmits the second data to the communication terminal in response to the first data, and the communication terminal transfers the second data received to the controlled device.

15 4. The remote control system according to claim 3, wherein

the first data includes a message authentication code, and

the server restricts transmission of the second data in
20 accordance with a result of message authentication using the message authentication code included in the first data.

5. The remote control system according to claim 3 or 4, wherein

25 the second data includes a message authentication code, and

the controlled device restricts execution of a process determined by the detail of remote control included in the second data in accordance with a result of message authentication using the message authentication code included
5 in the second data.

6. The remote control system according to any one of claims 3 through 5, wherein

the server performs client authentication of the
10 communication terminal and restricts communication with the communication terminal in accordance with a result of the client authentication.

7. The remote control system according to any one of
15 claims 3 through 5, wherein

the server and the communication terminal perform mutual authentication such that the server performs client authentication of the communication terminal, and the communication terminal performs server authentication of the
20 server, and

the server restricts communication with the communication terminal in accordance with a result of the mutual authentication.

25 8. The remote control system according to any one of claims 1 through 7, wherein

the communication terminal communicates an address of the communication terminal to the controlled device,

the first data includes data corresponding to the address of the communication terminal,

5 the second data includes the data included in the first data and corresponding to the address of the communication terminal, and

when the data included in the second data and corresponding to the address of the communication terminal
10 does not match a destination address of the first data, the controlled device restricts execution of the process determined by the detail of remote control included in the second data.

15 9. The remote control system according to any one of claims 1 through 8, wherein

the controlled device includes a communication unit that performs wireless communication with the communication terminal,

20 the communication unit is driven by a battery provided in the controlled device, and

when a predetermined user operation designating acceptance of remote control is input in the controlled device, the communication unit returns from a suspended state
25 and performs wireless communication.

10. The remote control system according to any one of claims 1 through 8, wherein

the controlled device includes a communication unit that performs wireless communication with the communication
5 terminal, and

when a predetermined user operation designating acceptance of remote control is input in the controlled device, the communication unit performs wireless communication.

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11. The remote control system according to any one of claims 3 through 7, wherein

the communication unit displays that communication is proceeding during communication with the server or during
15 communication with the server and the controlled device.

12. The remote control system according to any one of claims 1 through 11, wherein

the controlled device includes an electric lock, and
20 the second data includes, as the detail of remote control, data designating unlocking of the electric lock.