

communication terminal comprising a ~~data selection condition setting~~
~~section for arbitrarily selecting a plurality of data selection conditions~~
~~from a plurality of data selection condition candidates, a data selecting~~
~~section for selecting user data from those stored in the mobile communi-~~
 5 ~~cation terminal according to the plurality of data selection conditions set~~
~~by the data selection condition setting section~~ a data-selecting section for selecting,
according to a plurality of data-selection conditions, data stored in the terminal relating
to the user of the terminal (user data). The mobile communication terminal further
comprises a data transmission condition setting section for selecting a condition for
 10 transmitting, as backup data, the user data selected by the data-selecting section, the
condition for transmitting being based on availability of a wireless LAN connection at
the location of the mobile communication terminal, ~~and~~ The mobile communication
terminal further comprises a backup-data transmitting section for transmitting the user
~~data selected as backup data by the data selecting section~~ backup data in accordance with
 15 the selected condition for transmitting.

Preferably, the data-selecting section is adapted to select at regular intervals the user data according to the plurality of the data-selection conditions.

Preferably, the mobile communication terminal also includes a
 20 data-selection-condition setting section for selecting, as each data-selection condition, one or more candidates from a plurality of data-selection-condition candidates. More preferably, a data-selection candidate is one of: a designated data file or files of the user; the data type of the user data; the amount of the user data; the confidentiality of
 25 the user data; or, the location of the terminal. Even more preferably, each condition includes one of: one only of the candidates; two or more of the candidates in the alternative; or, two or more of the candidates together.

In accordance with the second aspect of the present invention, there is provided a backup device for storing backup data of user data stored in a mobile communication terminal, the device including: a data-selection-
 30 condition setting section for setting one or more data-selection conditions; and, a data-selection-condition informing section for informing the mobile communication terminal of the one or more data-selection conditions set by the data-selection-condition setting section.

35 Preferably, the data-selection-condition setting section is adapted to select each data-selection condition from a plurality of data-

selection-condition candidates.

Preferably, a data-selection candidate is one of: a designated data file or files of the terminal user; the data type of the user data of the terminal user; the amount of the user data of the terminal user; the confidentiality of the user data of the terminal user; or, the location of the terminal.

Preferably, each condition includes one of: one only of the candidates; two or more of the candidates in the alternative; or, two or more of the candidates together.

10 In accordance with the third aspect of the present invention, there is provided a data-backup system for a mobile communication terminal, the system including: a backup device for storing therein, or storing in a recordable storage medium, backup data of user data stored in the mobile communication terminal, the backup device being adapted
15 to communicate with the mobile communication terminal through a communication network. The mobile communication terminal includes: a data-selecting section for selecting user data, from the user data stored in the mobile communication terminal, that satisfy a plurality of data-selection conditions set by a data-selection-condition setting section. The system further includes a data transmission condition setting section for selecting a condition for transmitting, as backup data, the user data selected by the data-selecting section. The condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal.;
20 and, The system further includes a backup-data transmitting section for transmitting to the backup device, in accordance with the selected condition for transmitting, the user data selected by the data-selecting section as backup data ~~to the backup device~~.

Preferably, the data-backup system further includes the data-selection-condition setting section, the data-selection-condition setting section being included in the backup device or the mobile communication terminal for setting the data-selection conditions, each condition being
30 selected from a plurality of data-selection-condition candidates.

Preferably, a data-selection condition is one of: a designated data file or files of the terminal user; the data type of the user data of the terminal user; the amount of the user data of the terminal user; the
35 terminal user; the amount of the user data of the terminal user; the

confidentiality of the user data of the terminal user; or, the location of the terminal.

Preferably, each condition includes one of: one only of the candidates; two or more of the candidates in the alternative; or, two or
5 more of the candidates together.

Preferably the backup device includes: a downloading section for downloading through the communication network the backup data, which the backup device stores therein or in the recordable storage medium, the downloading being to a communication terminal other than
10 the mobile communication terminal; and, a media-converting section for converting the backup data to a format compatible with the communication terminal. Alternatively, the backup device preferably includes: a downloading section for downloading through the communication network the backup data, which the backup device stores therein
15 or in the recordable storage medium, the downloading being to a communication terminal other than the mobile communication terminal; and, an authenticating section for determining whether or not to allow the download.

In accordance with the fourth aspect of the present invention,
20 there is provided a data backup system for a mobile communication terminal, the system including: a backup device for storing therein, or storing in a recordable storage medium, backup data of user data stored in the mobile communication terminal, the backup device being adapted to communicate with the mobile communication terminal through a
25 communication network; and, a data-selecting section for selecting user data, from the user data stored in the mobile communication terminal, that satisfy a plurality of data-selection conditions set by a data-selection-condition setting section. The backup device includes: a downloading section for downloading through the communication
30 network the backup data, which the backup device stores therein or in the recordable storage medium, the downloading being to a communication terminal other than the mobile communication terminal; an authenticating section for determining whether or not to allow the download; and, a login-limiting section for limiting the number of logins or login time available for
35 downloading the backup data by the downloading section.

In accordance with the fifth aspect of the present invention, there is provided a data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method including the steps of: selecting, by the mobile communication terminal or the backup device, a plurality of data-selection conditions, each data-selection condition being selected from a plurality of data-selection condition candidates; selecting, by the mobile communication terminal, user data from user data stored in the terminal according to the plurality of data-selection conditions; The method also comprises selecting, by a data transmission condition setting section, a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal and, transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

In accordance with the sixth aspect of the present invention, there is provided a data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method including the steps of: selecting, by the mobile communication terminal, user data from user data stored in the terminal according to a plurality of data-selection conditions; selecting, by a data transmission condition setting section, a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal; and, transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

Preferably, a data-selection candidate is one of: a designated data file or files of the terminal user; the data type of the user data of the terminal user; the amount of the user data of the terminal user; the confidentiality of the user data of the terminal user; or, the location of the terminal.

Preferably, each condition includes one of: one only of the candidates; two or more of the candidates in the alternative; or, two or more of the candidates together.

In accordance with the seventh aspect of the present invention, there is provided a data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method including the steps of: dividing, by the mobile communication terminal, the backup data of user data into one or more blocks of information according to a plurality of data-selection conditions; selecting a condition for transmitting, the backup data, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal; and, transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

Preferably, the mobile communication terminal transmits, with respect to each information block, only updated information blocks when transmitting the backup data.

In accordance with the eighth aspect of the present invention, there is provided a backup-data transmission method for a mobile communication terminal to transmit backup data of user data stored in the mobile communication data, the method including the steps of: selecting user data, from user data stored in the terminal, that satisfy a plurality of data-selection conditions; selecting a condition for transmitting, as backup data, the selected user data, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and, transmitting, in accordance with the selected condition for transmitting, the selected user data as backup data.

CLAIMS

1. A mobile communication terminal comprising:

a data-selecting section for selecting, according to a plurality of data-selection conditions, data stored in the terminal relating to the user of the terminal (user data);

a data transmission condition setting section for selecting a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and,

a backup-data transmitting section for transmitting, as backup data, the user data selected by the data-selecting section the backup data in accordance with the selected condition for transmitting.

2. The mobile communication terminal of claim 1, wherein the data-selecting section is adapted to select at regular intervals the user data according to the plurality of the data-selection conditions.

3. The mobile communication terminal of claim 1 or 2, also comprising:

a data-selection-condition setting section for selecting, as each data-selection condition, one or more candidates from a plurality of data-selection-condition candidates.

4. The mobile communication terminal of any of claims 1 to 3, wherein a data-selection candidate is one of:

a designated data file or files of the user;
 the data type of the user data;
 the amount of the user data;
 the confidentiality of the user data; or,
 the location of the terminal.

5. The mobile communication terminal of claim 3 or 4, wherein each condition comprises one of:

one only of the candidates;

two or more of the candidates in the alternative; or,
two or more of the candidates together.

6. A backup device for storing backup data of user data stored in a mobile communication terminal, comprising:

a data-selection-condition setting section for setting one or more data-selection conditions; and,

a data-selection-condition informing section for informing the mobile communication terminal of the one or more data-selection conditions set by the data-selection-condition setting section.

7. The backup device of claim 6, wherein the data-selection-condition setting section is adapted to select each data-selection condition from a plurality of data-selection-condition candidates.

8. The backup device of claim 6 or 7, wherein a data-selection candidate is one of:

a designated data file or files of the terminal user;
the data type of the user data of the terminal user;
the amount of the user data of the terminal user;
the confidentiality of the user data of the terminal user; or,
the location of the terminal.

9. The backup device of claim 6, 7 or 8, wherein each condition comprises one of:

one only of the candidates;
two or more of the candidates in the alternative; or,
two or more of the candidates together.

10. A data-backup system for a mobile communication terminal, comprising:

a backup device for storing therein, or storing in a recordable storage medium, backup data of user data stored in the mobile communication terminal, the backup device being adapted to communicate with the mobile communication terminal through a communication network; wherein the mobile communication terminal includes:

a data-selecting section for selecting user data, from the user data stored in the mobile communication terminal, that satisfy a plurality of data-selection conditions set by a data-selection-condition setting section;

a data transmission condition setting section for selecting a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and,

a backup-data transmitting section for transmitting ~~the user data selected by the data-selecting section as backup data~~ to the backup device the backup data in accordance with the selected condition for transmitting.

11. The data-backup system of claim 10, further comprising:

the data-selection-condition setting section, the data-selection-condition setting section being included in the backup device or the mobile communication terminal for setting the data-selection conditions, each condition being selected from a plurality of data-selection-condition candidates.

12. The data-backup system of claim 10 or 11, wherein a data-selection condition is one of:

a designated data file or files of the terminal user;
 the data type of the user data of the terminal user;
 the amount of the user data of the terminal user;
 the confidentiality of the user data of the terminal user; or,
 the location of the terminal.

13. The data-backup system of claim 10, 11 or 12, wherein each condition comprises one of:

one only of the candidates;
 two or more of the candidates in the alternative; or,
 two or more of the candidates together.

14. The data backup system of any of claims 10 to 13, wherein the backup device includes:

a downloading section for downloading through the communication network the backup data, which the backup device stores therein or in the recordable storage medium, the

downloading being to a communication terminal other than the mobile communication terminal; and,

a media-converting section for converting the backup data to a format compatible with the communication terminal.

15. The data backup system of any of claims 10 to 13, wherein the backup device includes:

a downloading section for downloading through the communication network the backup data, which the backup device stores therein or in the recordable storage medium, the downloading being to a communication terminal other than the mobile communication terminal; and,

an authenticating section for determining whether or not to allow the download.

16. A data backup system for a mobile communication terminal, comprising:

a backup device for storing therein, or storing in a recordable storage medium, backup data of user data stored in the mobile communication terminal, the backup device being adapted to communicate with the mobile communication terminal through a communication network; and,

a data-selecting section for selecting user data, from the user data stored in the mobile communication terminal, that satisfy a plurality of data-selection conditions set by a data-selection-condition setting section;

wherein the backup device includes:

a downloading section for downloading through the communication network the backup data, which the backup device stores therein or in the recordable storage medium, the downloading being to a communication terminal other than the mobile communication terminal;

an authenticating section for determining whether or not to allow the download; and,

a login-limiting section for limiting the number of logins or login time available for downloading the backup data by the downloading section.

17. A data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile

communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method comprising the steps of:

selecting, by the mobile communication terminal or the backup device, a plurality of data-selection conditions, each data-selection condition being selected from a plurality of data-selection-condition candidates;

selecting, by the mobile communication terminal, user data from user data stored in the terminal according to the plurality of data selection conditions;

selecting, by a data transmission condition setting section, a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal; and,

transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

18. A data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method comprising the steps of:

selecting, by the mobile communication terminal, user data from user data stored in the terminal according to a plurality of data-selection conditions;

selecting, by a data transmission condition setting section, a condition for transmitting, as backup data, the user data selected by the data-selecting section, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and,

transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

19. The data-backup method of claim 17 or 18, wherein a data selection candidate is one of:

a designated data file or files of the terminal user;

the data type of the user data of the terminal user;

the amount of the user data of the terminal user;

the confidentiality of the user data of the terminal user; or,

the location of the terminal.

20. The data-backup method of claim 17, 18 or 19, wherein each condition comprises one of:
one only of the candidates;
two or more of the candidates in the alternative; or,
two or more of the candidates together.

21. A data-backup method for a mobile communication terminal, in which a backup device stores therein or in a recordable medium, backup data of user data stored in a mobile communication terminal, the backup device and mobile communication terminal being adapted to communicate through a communication network, the method comprising the steps of:

dividing, by the mobile communication terminal, the backup data of user data into one or more blocks of information according to a plurality of data-selection conditions;

selecting a condition for transmitting, the backup data, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and,

transmitting, by the mobile communication terminal to the backup device, in accordance with the selected condition for transmitting, the selected user data as backup data.

22. The data-backup method as in claim 21, wherein the mobile communication terminal transmits, with respect to each information block, only updated information blocks when transmitting the backup data.

23. A backup-data transmission method for a mobile communication terminal to transmit backup data of user data stored in the mobile communication data, the method comprising the steps of:

selecting user data, from user data stored in the terminal, that satisfy a plurality of data-selection conditions;

selecting a condition for transmitting, as backup data, the selected user data, the condition for transmitting being based on availability of a wireless LAN connection at the location of the mobile communication terminal, and,

transmitting, in accordance with the selected condition for transmitting, the selected user data as backup data.

24. The backup-data method of claim 23, wherein the method comprises the additional step, prior to the step of selecting user data, of:

selecting the one or more data-selection conditions, each data-selection condition being selected from a respective plurality of data-selection-condition candidates.

25. A mobile communication terminal, backup device, data-backup system, data-backup method or data-backup transmission method, each being substantially as herein described with reference to and as shown in the accompanying drawings.