CLAIMS

[Claim 1] An information terminal linking system comprising a portable terminal to be used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein, when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing; and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition.

[Claim 2] An information terminal linking system according to Claim 1, wherein

the portable terminal stores in advance preprocessing decision information indicating a time when preprocessing is to be executed; decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition; and transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing.

[Claim 3] An information terminal linking system according to Claim 1, wherein

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment; and

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal.

[Claim 4] An information terminal linking system according to Claim 2, wherein

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment; and

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal.

[Claim 5] An information terminal linking system according to Claim 2, wherein

when the device terminal receives the query information, the device terminal transmits to the portable terminal an occupancy condition for business task devices connected to the device terminal, as the acceptability condition; and

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows.

[Claim 6] An information terminal linking system according to Claim 3, wherein

when the device terminal receives the query information, the device terminal transmits to the portable terminal the occupancy condition for business task devices connected to the device terminal, as the acceptability condition; and

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows.

[Claim 7] An information terminal linking system according to Claim 3, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 8] An information terminal linking system according to Claim 5, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the

device terminal to which the request information is to be transmitted.

[Claim 9] An information terminal linking system according to Claim 3, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 10] An information terminal linking system according to Claim 5, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 11] An information terminal linking method using an information terminal linking system comprising a portable terminal used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein, when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing; and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition.

[Claim 12] An information terminal linking method according to Claim 11, wherein

the portable terminal stores in advance preprocessing decision information indicating a time when preprocessing is to be executed; decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition; and

transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing.

[Claim 13] An information terminal linking method according to Claim 11, wherein

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment; and

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal.

[Claim 14] An information terminal linking method according to Claim 12, wherein

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment; and

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal.

[Claim 15] An information terminal linking method according to Claim 12, wherein

when the device terminal receives the query information, the device terminal transmits to the portable terminal an occupancy condition for business task devices connected to the device terminal, as the acceptability condition; and

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows.

[Claim 16] An information terminal linking method according to Claim 13, wherein

when the device terminal receives the query information, the device terminal

transmits to the portable terminal an occupancy condition for business task devices connected to the device terminal, as the acceptability condition; and

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows.

[Claim 17] An information terminal linking method according to Claim 12, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 18] An information terminal linking method according to Claim 13, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 19] An information terminal linking method according to Claim 12, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 20] An information terminal linking method according to Claim 13, wherein

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

CLAIMS

[Claim 1] An information terminal linking system comprising a portable terminal to be used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

the portable terminal

stores in advance preprocessing decision information indicating a time when preprocessing is to be executed,

decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition, and

transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing;

when the device terminal receives the query information, the device terminal transmits to the portable terminal an occupancy condition for business task devices connected to the device terminal, as the acceptability condition;

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 2] An information terminal linking system comprising a portable terminal to be used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

the portable terminal

stores in advance preprocessing decision information indicating a time when preprocessing is to be executed,

decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition, and

transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing;

when the device terminal receives the query information, the device terminal transmits to the portable terminal an occupancy condition for business task devices connected to the device terminal, as the acceptability condition;

when the device terminal receives the request information, the device terminal obtains device processing flows associated with business task devices corresponding to preprocessing corresponding to the request information, and then executes the device processing flows; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 3] An information terminal linking system comprising a portable terminal to be used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment;

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 4] An information terminal linking system comprising a portable terminal to be used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment;

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 5] An information terminal linking method using an information terminal linking system comprising a portable terminal used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

the portable terminal

stores in advance preprocessing decision information indicating a time when preprocessing is to be executed; decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition, and

transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 6] An information terminal linking method using an information terminal linking system comprising a portable terminal used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

the portable terminal

stores in advance preprocessing decision information indicating a time when preprocessing is to be executed; decides, in reference to the preprocessing decision information, whether it is time to request preprocessing in the processing condition, and

transmits the request information if the portable terminal decides that it is time that it is possible to request the preprocessing; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.

[Claim 7] An information terminal linking method using an information terminal linking system comprising a portable terminal used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is

possible, and transmits to the portable terminal an acceptability condition as the results of the judgment;

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal to which the greatest number of occupied business task devices are connected, as the device terminal to which the request information is to be transmitted.

[Claim 8] An information terminal linking method using an information terminal linking system comprising a portable terminal used for predetermined business tasks, a device terminal to which business task devices are connected to execute the processing for the business tasks, and a server, which are connected via a communication network, wherein:

when the business tasks are executed,

the portable terminal transmits, according to a processing condition for the business tasks, request information including the processing condition pursuant to preprocessing decision information defining a time when the portable terminal transmits the request information, the request information being for making a request to the device terminal for a part of the processing as preprocessing, and

the device terminal receives the request information from the portable terminal and causes the business task devices to execute the preprocessing according to the processing condition;

a plurality of device terminals are connected to the communication network;

the portable terminal transmits to each of the plurality of device terminals query information as to whether preprocessing is possible;

each of the plurality of device terminals judges, on the basis of its occupancy condition, whether processing including the preprocessing corresponding to the query information is possible, and transmits to the portable terminal an acceptability condition as the results of the judgment;

the portable terminal decides, on the basis of the acceptability condition, from among the plurality of device terminals, a device terminal to which the request information is to be transmitted, and transmits the request information to the decided device terminal; and

when the portable terminal decides a device terminal to which the request information is to be transmitted, the portable terminal decides/selects, from among the plurality of device terminals each of which a plurality of business task devices are connected to, a device terminal having the highest occupied-business-task-device rate as the device terminal to which the request information is to be transmitted, the occupied-business-task-device rate being a ratio of occupied business task devices connected to a device terminal among all business task devices connected thereto.