CLAIMS

1. An information processing apparatus comprising:

a device interface configured to transmit and receive data to and from a terminal device;

a network interface configured to transmit and receive data to and from a network;

a power supply part configured to supply electric power from an external power supply;

a battery configured to supply electric power when a power supply from the power supply part is stopped; and

a control part configured to:

perform a conversion process on data from the terminal device, and transmit the data to the network; and

when the power supply from the power supply part is stopped, transmit, to another information processing apparatus through the network interface, a first message indicating that a pass-through mode in which data is relayed between the terminal device and the network without being subjected to the conversion process is set, and set the pass-through mode, wherein the conversion process is an encryption process.

2. The information processing apparatus according to claim 1, wherein the control part is configured to transmit the first message, and set the pass-through mode, when a

remaining capacity of the battery is equal to or less than a first threshold value.

3. The information processing apparatus according to claim 2, wherein the control part is configured to transmit, to the another information processing apparatus, a second message indicating that an energy saving mode in which an identifier is added to data from the terminal device is set, and set the energy saving mode, when the remaining capacity of the battery is equal to or less than a second threshold value greater than the first threshold value.

4. The information processing apparatus according to any one of claims 1 to 3, wherein the control part is configured to transmit the first message to a terminal device connected to the another information processing apparatus through the network interface and the another information processing apparatus.

5. The information processing apparatus according to any one of claims 1 to 4, wherein

the control part is configured to transmit, to the another information processing apparatus through the network interface, a third message indicating that a power supply source is switched from the power supply part to the battery when the power supply from the power supply part is stopped.

6. The information processing apparatus according to any one of claims 1 to 5, wherein the control part is configured to transmit a communication log to the another information processing apparatus through the network interface when the power supply from the power supply part is stopped.

7. The information processing apparatus according to any one of claims 1 to 6, wherein the control part is configured to transmit a self-diagnosis log to the another information processing apparatus through the network interface when the power supply from the power supply part is stopped.

8. An information processing system comprising a host device, a first information processing apparatus, and a second information processing apparatus, wherein the first information processing apparatus comprises:

a first device interface configured to transmit and receive data to and from a terminal device;

a first network interface configured to transmit and receive data to and from a network;

a power supply part configured to supply electric power from an external power supply;

a battery configured to supply electric power when a power supply from the power supply part is stopped; and

a first control part configured to:

perform a first conversion process on data from the terminal device, and transmit the data to the network; and

when the power supply from the power supply part is stopped, transmit, to the host device through the first network interface, a first message indicating that a pass-through mode in which data is relayed between the terminal device and the network without being subjected to the first conversion process is set, and set the pass-through mode,

wherein the second information processing apparatus comprises:

a second device interface configured to transmit and receive data to and from the host device;

a second network interface configured to transmit and receive data to and from the terminal device through the network; and

a second control part configured to:

perform a second conversion process corresponding to the first conversion process on data from the first information processing apparatus, and transmit the data to the host device; and

when a command indicating that the first information processing apparatus is operating in the pass-through mode, transmit the data from the

first information processing apparatus to the host device without performing the second conversion process, and

wherein the host device includes:

a communication part configured to transmit and receive data to and from the second information processing apparatus; and

a processor configured to transmit the command to the second information processing apparatus through the communication part when the first message is received through the communication part.

9. An information processing method executed by a control part, the method comprising:

performing a conversion process on data from a terminal device, and transmitting the data to a network; and

when a power supply from a power supply part configured to supply electric power from an external power supply is stopped, transmitting, to another information processing apparatus, a first message indicating that a pass-through mode in which data is relayed between the terminal device and the network without being subjected to the conversion process is set, and setting the pass-through mode,

wherein the conversion process is an encryption process.