CLAIMS

1. A connection system of a building facility device managing system which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network monitoring device with using an IP protocol, so that the building facility monitoring device is coordinated with the IP network monitoring device,

the IP network device managing system including:

a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and parameter information of the IP protocol and the BACnet or Lontalk protocol are stored;

a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and

a coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit executing a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit executing:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating the packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

2. A connection system of a building facility device managing system which connects a building facility device managing system with an IP

network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network monitoring device with using an IP protocol, so that the building facility monitoring device is coordinated with the IP network monitoring device,

the IP network device managing system including:

a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and parameter information of the IP protocol and the BACnet or Lontalk protocol are stored;

a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and

a coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit executing a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit executing:

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating the packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

3. A connection system of a building facility device managing system which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network

monitoring device with using an IP protocol, so that the building facility monitoring device is coordinated with the IP network monitoring device,

the IP network device managing system including:

a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and parameter information of the IP protocol and the BACnet or Lontalk protocol are stored;

a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and

a coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit executing a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit executing:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating the packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system; and

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating the packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

4. A connection method of a building facility device managing system for a computer system which connects a building facility device

managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing the IP network monitoring device with using an IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network managing system includes: a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and the parameter information of an IP protocol and a BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and an coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

5. A connection method of a building facility device managing system for a computer system which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing the IP network monitoring device with using an IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network managing system includes: a management database in which statuses of the

building facility monitoring device and of the IP network monitoring device and the parameter information of an IP protocol and a BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and an coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

6. A connection method of a building facility device managing system for a computer system which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using a BACnet or Lontalk protocol, the IP network device managing system being for managing the IP network monitoring device with using an IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network managing system includes: a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and the parameter information of an IP protocol and a BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol into the management database when the status which is a state of the IP network monitoring device has been changed; and an

coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system; and

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

7. A connection program of a building facility device managing system for a computer system, which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using the BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network monitoring device with using the IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network device managing system includes: a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and the parameter information of the IP protocol and the BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol ~~stored, stored~~ into

the management database when the status which is a state of the IP network monitoring device has been changed; and an coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

8. A connection program of a building facility device managing system for a computer system, which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using the BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network monitoring device with using the IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network device managing system includes: a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and the parameter information of the IP protocol and the BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol ~~stored, stored~~ into the management database when the status which is a state of the IP network monitoring device has been changed; and an coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.

9. A connection program of a building facility device managing system for a computer system, which connects a building facility device managing system with an IP network device managing system, the building facility device managing system being for managing a building facility monitoring device installed in a building with using the BACnet or Lontalk protocol, the IP network device managing system being for managing an IP network monitoring device with using the IP protocol, which coordinates the building facility monitoring device with the IP network monitoring device, and in which the IP network device managing system includes: a management database in which statuses of the building facility monitoring device and of the IP network monitoring device and the parameter information of the IP protocol and the BACnet or Lontalk protocol are stored; a monitoring-device-status managing unit which stores the parameter information for filling a difference in a specification between the IP protocol and the BACnet or Lontalk protocol ~~stored, stored~~ into the management database when the status which is a state of the IP network monitoring device has been changed; and an coordinated-packet-generation transmitting/receiving unit which receives a command from the building facility device managing system and which generates a packet of the BACnet protocol based on the status and the parameter information acquired from the management database to transmit it to the building facility device managing system,

the monitoring-device-status managing unit being made to execute a first step when the status received with using the IP protocol from the IP network monitoring device has been changed from the status stored in the management database, the first step of providing the parameter information unique for the BACnet or Lontalk protocol to the changed status and storing it, and

the coordinated-packet-generation transmitting/receiving unit being made to execute:

a second step when receiving an inquiry command of a status of a specific IP network monitoring device from the building facility device managing system, the second step of acquiring the status and the parameter information of the specific IP network monitoring device for which the inquiry has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system; and

a third step when receiving an operation command of the status of the specific IP network monitoring device from the building facility device managing system, the third step of acquiring the status and the parameter information of the specific IP network monitoring device for which the operation command has been received, acquired from the management database, and of generating a packet of the BACnet or Lontalk protocol based on the acquired status and parameter information to transmit it to the building facility device managing system.