CLAIMS

1. A contract information reference device that controls reference to a plurality of pieces of contract information and operating state information regarding each of a plurality of facilities, each facility of the plurality of facilities associated with a facility ID for the facility, the contract information reference device comprising:

(a) a collection processing unit,

(i) wherein the collection processing unit is in data connection with a plurality of control devices via a communication network;

(ii) wherein the collection processing unit is configured to collect the operating state information related to a plurality of facility devices via the control devices; and

(iii) wherein each facility device is associated with the facility ID for the facility in which the facility device is installed;

(b) a database that stores for each facility of the plurality of facilities:

(i) the operating state information of the facility devices associated with the facility ID of the facility; and

(ii) the contract information and a contractant ID of a contractant included in a list of authorized parties and having rights to the contract information and the operating state information associated with the facility ID for the facility;

(c) a data reference application processing unit that for each facility of the plurality of facilities, receives a data reference application for the contract information associated with the facility ID of the facility and the operating state information associated with the facility ID of the facility

stored in the database from an authorized party operation terminal used by one of the authorized parties; and

(d) a reference processing unit that, for each facility of the plurality of facilities:

(i) notifies reference application information to the contract information including information indicating the authorized party and the operating state information associated with the facility ID of the facility, a contractant operation terminal used by a contractant indicated by a contractant ID associated with the contract information; and

(ii) stores, in the database, reference rights to the authorized party for the contract information and the operating state information associated with the facility ID of the facility in response to a response from the contractant for the reference application information.

2. The contract information reference device according to claim 1, wherein for each of the plurality of facilities:

the data reference application processing unit receives a reference application including the facility ID identifying the facility in which an unauthorized party has no contract for the contract information or the operating state information associated with the facility ID of the facility;

the reference processing unit notifies the reference application information including information indicating the unauthorized party identified based on the facility ID; and

the reference processing unit stores, in the database, reference rights to the unauthorized party having no rights to the contract information or the operating state information associated with the facility ID of the facility in response to a response from the contractant.

3. The contract information reference device according to any of claims 1 to 2, wherein

the database stores, in association with the contract information, an application status indicating correspondence to the data reference application, and

the reference processing unit stores, as the application status, the application status and a result of giving the reference rights.

4. The contract information reference device according to claim 3, wherein

the reference processing unit has a means for changing the application status in accordance with a predetermined condition.

5. The contract information reference device according to claim 4, wherein

the reference processing unit changes, after a certain period of time, from a state in which the reference rights are given to a state in which the reference rights are not given.

6. The contract information reference device according to claim 4, wherein

the reference processing unit changes the application status when detecting at least one of a change in a contract indicated by the contract information and a change in the contract information.

7. The contract information reference device according to any one of claims 1 to 6, wherein

the plurality of control devices include at least one of an elevator control device and a security camera control device; and

the plurality of facility devices includes at least one of an elevator and a security camera.

8. A contract information reference method for controlling reference to a plurality of pieces of contract information and operating state information regarding each of a plurality of facilities, each facility of the plurality of facilities associated with a facility ID for the facility, the contract information reference method comprising the steps of, for each facility of the plurality of facilities:

(a) maintaining data connection with a control devices via a communication network;

(b) collecting the operating state information related to a plurality of facility devices via the control devices, wherein each facility device is associated with the facility ID for the facility in which the facility device is installed; and

(c) storing in a database:

(i) the operating state information of the facility devices associated with the facility ID of the facility; and

(ii) the contract information and a contractant ID of a contractant included in a list of authorized parties and having rights to the contract information and the operating state information associated with the facility ID for the facility;

(d) receiving a data reference application for the contract information associated with the facility ID of the facility and the operating state information associated with the facility ID of the facility stored in the database from an authorized party operation terminal used by one of the authorized parties;

(e) notifying reference application information to the contract information including information indicating the authorized party and the operating state information

associated with the facility ID of the facility, a contractant operation terminal used by a contractant indicated by a contractant ID associated with the contract information; and

(f) storing, in the database, reference rights to the authorized party for the contract information and the operating state information associated with the facility ID of the facility in response to a response from the contractant for the reference application information.

9. The contract information reference method according to claim 8, wherein

the step of receiving a reference application includes the facility ID identifying the facility in which an unauthorized party has no contract for the contract information or the operating state information associated with the facility ID of the facility;

the step of notifying the reference application information includes information indicating the unauthorized party identified based on the facility ID; and

the step of storing in the database includes storing reference rights to the unauthorized party having no rights to the contract information or the operating state information associated with the facility ID of the facility in response to a response from the contractant.

10. The contract information reference method according to claim 8 or 9, wherein in the step of storing, the database stores, in association with the contract information:

an application status indicating correspondence to the data reference application;

the application status; and

a result of giving the reference rights.

11. The contract information reference method according to claim 10, wherein

the step of storing includes changing the application status in accordance with a predetermined condition.

12. The contract information reference method according to claim 11, wherein

the step of storing includes changing, after a certain period of time, from a state in which the reference rights are given to a state in which the reference rights are not given.

13. The contract information reference method according to claim 11, wherein

the step of storing includes changing the application status when detecting at least one of a change in a contract indicated by the contract information and a change in the contract information.

14. The contract information reference method according to any one of claims 8 to 13, wherein

the plurality of control devices include at least one of an elevator control device and a security camera control device; and

the plurality of facility devices includes at least one of an elevator and a security camera.