In view of the above-mentioned circumstances, it is desirable to provide a monitor-and-control system, from which a user of the system is capable of obtaining information necessary for him easily.

According to an aspect of the present invention, there is provided a monitor-and-control system, including: user information storage configured to store user information identifying a user and a role corresponding to the user; role-to-information storage configured to store an apparatus name showing an apparatus-to-be-controlled and information on the apparatus in relation to the role; an apparatus information obtaining unit configured to retrieve a role corresponding to an input user information from the user information storage, and to retrieve an apparatus name corresponding to the retrieved role and corresponding information from the role-to-information storage; and a display controller configured to display the information retrieved by the apparatus information obtaining unit and the apparatus name retrieved by the apparatus information obtaining unit together on a display unit, wherein the role-to-information storage may store a management/monitoring target in relation to the role, the management/monitoring target being the information on the apparatus, the management/monitoring target identifying a management and monitoring target of the apparatus, the monitor-and-control system may further include management/monitoring target and attribute storage configured to store an attribute of the management/monitoring target of the apparatus in relation to the apparatus name, the apparatus information obtaining unit may be configured to retrieve an

apparatus name and a management/monitoring target corresponding to the retrieved role from the role-to-information storage, and the display controller may be configured to display the management/monitoring target attribute retrieved by the apparatus information obtaining unit and the apparatus name retrieved by the apparatus information obtaining unit together on the display unit.

The monitor-and-control system may further include apparatus-to-display definition storage configured to store a display definition-corresponding-to-apparatus in relation to the management/monitoring target, the display definition-corresponding-to-apparatus being used to display the management/monitoring target attribute, in which the display controller may be configured to display the management/monitoring target attribute and the apparatus name together on the display unit based on a display definition-corresponding-to-apparatus, the display definition-corresponding-to-apparatus corresponding to the management/monitoring target, the display definition-corresponding-to-apparatus being stored in the apparatus-to-display definition storage.

The monitor-and-control system may further include display definition-corresponding-to-role storage configured to store a display definition-corresponding-to-role in relation to the role, the display definition-corresponding-to-role being used to display the management/monitoring target attribute, in which the display controller may be configured to display the management/monitoring target attribute and the apparatus name together on the display unit based on a display

definition-corresponding-to-role corresponding to the role stored in the display definition-corresponding-to-role storage.

The monitor-and-control system may further include: authority information storage configured to store an access authority for the information on the apparatus in relation to the role; and an access controller configured to validate and invalidate access to information based on an access authority, the information being displayed by the display controller on the display unit, the access authority being stored in the authority information storage in relation to a role corresponding to input user information, in which the display controller may be configured to change a symbol of information displayed on the display unit corresponding to validation and invalidation controlled by the access controller.

In the monitor-and-control system, the management/monitoring target includes an operation status of the apparatus, a maintenance status of the apparatus, and a working status of the apparatus.

As described above, according to embodiments of the present invention, a user of the system is capable of obtaining information necessary for him from a monitor-and-control system easily.

Brief Description of Drawings

Fig. 1 is a configuration diagram showing the configuration of a monitor-and-control system of Embodiment 1 of the present invention;

Fig. 2 is a configuration diagram showing the configuration of the user information storage 101;

What is claimed is:

1. A monitor-and-control system, comprising:

user information storage configured to store user information identifying a user and a role corresponding to the user;

role-to-information storage configured to store an apparatus name showing an apparatus-to-be-controlled and information on the apparatus in relation to the role;

an apparatus information obtaining unit configured

to retrieve a role corresponding to an input user information from the user information storage, and

to retrieve an apparatus name corresponding to the retrieved role and corresponding information from the role-to-information storage; and

a display controller configured to display the information retrieved by the apparatus information obtaining unit and the apparatus name retrieved by the apparatus information obtaining unit together on a display unit, wherein

the role-to-information storage stores a management/monitoring target in relation to the role, the management/monitoring target being the information on the apparatus, the management/monitoring target identifying a management and monitoring target of the apparatus,

the monitor-and-control system further comprises management/monitoring target and attribute storage configured to store an attribute of the management/monitoring target of the apparatus in relation to the apparatus name,

the apparatus information obtaining unit is configured to retrieve an apparatus name and a management/monitoring target corresponding to the retrieved role from the role-to-information storage, and

the display controller is configured to display the management/monitoring target attribute retrieved by the

apparatus information obtaining unit and the apparatus name retrieved by the apparatus information obtaining unit together on the display unit.

2. The monitor-and-control system according to claim 1, further comprising:

apparatus-to-display definition storage configured to store a display definition-corresponding-to-apparatus in relation to the management/monitoring target, the display definition-corresponding-to-apparatus being used to display the management/monitoring target attribute, wherein

the display controller is configured to display the management/monitoring target attribute and the apparatus name together on the display unit based on a display definition-corresponding-to-apparatus, the display definition-corresponding-to-apparatus corresponding to the management/monitoring target, the display definition-corresponding-to-apparatus being stored in the apparatus-to-display definition storage.

3. The monitor-and-control system according to claim 1 or 2, further comprising:

display definition-corresponding-to-role storage configured to store a display definition-corresponding-to-role in relation to the role, the display definition-corresponding-to-role being used to display the management/monitoring target attribute, wherein

the display controller is configured to display the management/monitoring target attribute and the apparatus name together on the display unit based on a display definition-corresponding-to-role corresponding to the role stored in the display definition-corresponding-to-role storage.

4. The monitor-and-control system according to any one of claims 1 to 3, further comprising:

authority information storage configured to store an access authority for the information on the apparatus in relation to the role; and

an access controller configured to validate and invalidate access to information based on an access authority, the information being displayed by the display controller on the display unit, the access authority being stored in the authority information storage in relation to a role corresponding to input user information, wherein

the display controller is configured to change a symbol of information displayed on the display unit corresponding to validation and invalidation controlled by the access controller.

5. The monitor-and-control system according to any one of claims 1 to 4, wherein

the management/monitoring target includes an operation status of the apparatus, a maintenance status of the apparatus, and a working status of the apparatus.