CLAIMS

1. An integrated management system for managing an operation of a moving body capable of moving autonomously and deployed in an area, the integrated management system comprising:

a route map virtually plotted to the area, the route map including two or more nodes and an edge connecting the nodes;

a route setting unit configured to set a route for causing the moving body to move from a node to a destination node via at least one edge; and

a control unit configured to control the moving body to move along the set route,

wherein the route map includes a portion connected to a yard that is a collection of material storage areas via predetermined ones of the nodes,

a plurality of material blocks defined and ensured as the material storage areas are arranged inside the yard, and

an approach node is set near each of the plurality of material blocks, the approach node being a node approaching said each of the plurality of material blocks.

2. The integrated management system according to claim 1, wherein

the control unit is configured to generate command information for causing the moving body to move along the set route, and

the moving body is configured to start moving based on the received command information and move along the route.

3. The integrated management system according to claim 1 or 2, wherein

the control unit is configured to generate

movement command information for causing the moving body to move along the set route, and

operation command information for causing the moving body to make an operation at a predetermined node or a predetermined edge, and

the moving body is configured to

receive the movement command information and the operation command information,

start moving based on the movement command information, and

move along the route, whereas the moving body is configured to operate based on the operation command information at the predetermined node or the predetermined edge.

4. The integrated management system according to any one of claims 1 to 3, wherein the route setting unit is configured to select a route that minimizes the distance or the time of movement from a plurality of routes.

5. The integrated management system according to any one of claims 1 to 4, wherein the moving body is a transport robot configured to transport a load, and configured to be controlled to move from a node indicating a location of a transport source, to a node indicating a location of a transport destination.