

What is claimed is:

1. An access management method in which a computer including a control unit performs access management of a graph comprising nodes and directed links between the nodes, wherein

the control unit:

determines, in response to an attempt to access a node N, whether a completeness condition, which indicates that complete access information that is access information with which it is possible to access the node N can be obtained, is satisfied, by combining pieces of access information which have been acquired before accessing the node N;

permits access to the node N when the completeness condition is satisfied; and

suspends access to the node N when the completeness condition is not satisfied,

wherein, when a virtual node containing multiple nodes is formed,
writing and reading of data to the virtual node is performed by one single
communication.

2. The access management method according to claim 1, wherein
permitting the access involves:

generating the complete access information from one or more pieces
of access information when the completeness condition is satisfied; and

revealing information contained in the node N by using the complete
access information.

3. The access management method according to claim 1 or 2, wherein
permitting the access involves:

restricting, when rights description data on a right of data user who uses information contained in the node N is obtained, use of the information contained in the node N, on the basis of the rights description data.

4. The access management method according to any one of claims 1 to 3, wherein

the control unit further:

generates a node O;

generates a link NO; and

appends, to the link NO, access information that can be obtained on the basis of the completeness condition.

5. An information processing device that performs access management of a graph comprising nodes and directed links between the nodes, the device comprising:

a determining unit that determines, in response to an attempt to access a node N, whether a completeness condition, which indicates that complete access information that is access information with which it is possible to access the node N can be obtained, is satisfied, by combining pieces of access information which have been acquired before accessing the node N;

a permitting unit that permits access to the node N when the completeness condition is satisfied; and

a restricting unit that suspends access to the node N when the completeness condition is not satisfied,

wherein, when a virtual node containing multiple nodes is formed, writing and reading of data to the virtual node is performed by one single communication.

6. A program for causing a computer to execute access management of a graph comprising nodes and directed links between the nodes, the program causing the computer to execute the processes of:

determining, in response to an attempt to access a node N, whether a completeness condition, which indicates that complete access information that is access information with which it is possible to access the node N can be obtained, is satisfied, by combining pieces of access information which have been acquired before accessing the node N;

permitting access to the node N when the completeness condition is satisfied; and

suspending access to the node N when the completeness condition is not satisfied,

wherein, when a virtual node containing multiple nodes is formed, writing and reading of data to the virtual node is performed by one single communication.

7. A computer-readable recording medium having the program according to claim 6 recorded thereon.