

ICT RESOURCE MANAGEMENT DEVICE, ICT RESOURCE MANAGEMENT METHOD AND ICT RESOURCE MANAGEMENT PROGRAM

ABSTRACT

[Problems to be Solved by the Invention] To automate an operation in a distributed system and reduce a cost to operate the distributed system to which virtualization technology is applied.

[Means for Solving the Problems] An ICT resource management device (1) which manages a physical node and a virtual node, each as an ICT resource, includes: a configuration information management part (13) configured to manage physical layer configuration information (21a) which is information on a configuration of the physical node on a physical layer and virtual layer configuration information (21b) which is information on a configuration of the virtual node on a virtual layer; a layer mapping part (14) configured to perform mapping of the physical layer and the virtual layer; a blueprint creation part (12) configured to, when an externally-provided device requests a change in the configuration, create a blueprint (24) which is design information on an infrastructure required for the configuration change, based on the physical layer configuration information (21a), the virtual layer configuration information (21b), and mapping information (22) which is information obtained as a result of the mapping; and an orchestrator part (15, 16) configured to access and run a program which is operative via an API, based on the blueprint (24), to thereby perform orchestration of the virtual layer.

Figure 2