

ABSTRACT

**METHOD FOR CONSTRUCTING NAME MAPPING AND
RESOLUTION SYSTEM OF DISTRIBUTED HIERARCHICAL DELAY
PROVISION**

Disclosed in the present invention is a method for constructing a name mapping and resolution system of distributed hierarchical delay provision. The name mapping and resolution system of distributed hierarchical delay provision comprises a management system and a plurality of service provider nodes. The method includes: taking a node distance between the service provider nodes obtained by means of actual round-trip delay measurement as a basis, and determining the position of each service provider node in a forest structure and a connection relationship with other service provider nodes by means of a nested relationship judgment condition; determining, by means of the process of finding an ancestor node, all branch nodes between a root node and a parent node at an addition position of a service provider node to be added; and adding, by means of the process of finding a child node, a node having a lower service delay level to the service provider node to be added, and adjusting a tree structure accordingly. Each tree represents a service area; the number of layers of nodes in a tree corresponds to a service delay level; the root node is a node having the highest service delay level; and nodes of the same layer have the same service delay level.

[Fig . 1]