

TERMINAL APPARATUS AND N-TREE CONSTRUCTION METHOD

ABSTRACT

A terminal apparatus is provided that minimizes traffic congestion by reducing end-to-end delay and maximizes the bandwidth available in shared N-tree ALM nodes. In this terminal apparatus, an optimal stream path information table (204) stores N-tree session information for all nodes. A server forwarding table (202) stores bandwidth-fair ALM route information for all nodes in a specific N-tree session. An ALM forwarding table constructor (218) updates M-tree session information stored in an optimal stream path information table (204) using network metrics and heuristic rules stored in a heuristic rule database (206), executes ALM_N-tree algorithm using updated N-tree session information, and thereby generates bandwidth-fair ALM route information.

Fig. 4