

COMMUNICATION CHANNEL BUILDING DEVICE AND N-TREE BUILDING METHOD

ABSTRACT

Disclosed is a communication channel building device which can guarantee a fair bandwidth allocation and exhibit a preferable perception AV quality in an ALM application. A transfer table building controller (316) controls building of a distribution type optimal channel table over a plurality of communication nodes. A group constructor (308) distributes communication nodes to a group dedicated for a specific source in accordance with the communication node display resolution and the content type and assigns a priority to the group for the specific source. A bandwidth allocator (322) temporarily allocates a bandwidth which can be used for a logic stream between communication nodes. A transfer table constructor (328) builds a distribution type optimal channel table according to the priority of the group for the specific source.

FIG. 3