

METHOD AND SYSTEM FOR UTILIZING SMART ANTENNAS IN ESTABLISHING A BACKHAUL NETWORK

Abstract

A method and system for utilizing smart antenna in transmission of messages between nodes (102a-102n) are disclosed. A wireless communication system includes a plurality of nodes (102a-102n), and each node is capable of being connected to each other node. At least a portion of the nodes are provided with a smart antenna (204) configured to generate a plurality of directional beams (109a-109h). Each node maintains a list of other nodes and beam configuration information to be used in transmission of messages to other nodes. When a source node is required to transmit to a target node, the source node retrieves the beam configuration information and transmits with a directional beam (109) directed to the target node.

Fig. 3