ABSTRACT OF THE DISCLOSURE

RESOLVING BEACON TRANSMISSION AND RECEIPT CONFLICTS IN MESH NETWORK NODES

One embodiment of the present invention sets forth a technique for performing time synchronization within a network. The technique includes detecting a first scheduling conflict between a first transmission time associated with a first periodic beacon from a first node in the network and a first listening window associated with receiving a second periodic beacon from a second node in the network. The technique also includes determining a first alternate transmission time for the second periodic beacon based on a second transmission time associated with the second periodic beacon and a position of the second node in the network and calculating a second listening window associated with transmission of the second periodic beacon from the second node at the first alternate transmission time. The technique further includes listening for the second periodic beacon during the second listening window.

FIG. 11