Firetide Explanation for contention based protocol

We are using CSMA/CA recommended by 802.11-2007standards.

No proprietary algorithm is used.

Atheros chipset AR5112 Dual Band 802.11 Chipset based on 802.11 standards is used in 4000 series boards.

1. Carrier sense multiple access with collision avoidance (CSMA/CA):

    a. Carrier sensing scheme is used,
         i.   A data station that intends to transmit sends a jam signal,
         ii. After waiting a sufficient time for all stations to receive the jam signal, the data station transmits a frame, and
         iii. While transmitting, if the data station detects a jam signal from another station, it stops transmitting for a random time and then tries again.

2. Contention based MAC protocols including the IEEE 802.11 DCF section 9.1.1 of the IEEE 802.11-2007 are based on CSMA