

Claims

1. A method to provide access to a medium, the method comprising:
receiving a time value at a wireless station;
receiving a traffic indication map at the wireless station;
determining a backoff number for the wireless station as a function of at least one of a position of the wireless station within the traffic indication map or an association identifier (AID) associated with the wireless station; and
determining a medium access backoff time by multiplying the backoff number by the time value.
2. The method of claim 1, wherein the time value is a fixed value.
3. The method of claim 1, wherein the time value is received at the wireless station via one of a beacon, a short beacon, a probe response frame, an association response frame, a Fast Initial Link Setup discovery frame, a management frame, or a control frame.
4. The method of claim 1, further comprising:
setting a backoff timer at the wireless station with the medium access backoff time;
and
attempting to send a communication by the wireless station after the backoff timer has expired.
5. The method of claim 1, wherein the medium access backoff time is a slot time.
6. The method of claim 1, further comprising signaling the medium access backoff time using at least one of a beacon or a short beacon.
7. A wireless station comprising:
a transceiver configured to receive a time value and a traffic indication map; and
a processor in communication with the transceiver, the processor configured to

determine a backoff number for the wireless station as a function of at least one of a position of the wireless station within the traffic indication map or an association identifier (AID) associated with the wireless station; and

determine a medium access backoff time for the wireless station by multiplying the backoff number by the time value.

8. The wireless station of claim 7, wherein the time value is a fixed value.

9. The wireless station of claim 7, wherein the wireless station receives the time value via one of a beacon, a short beacon, a probe response frame, an association response frame, a Fast Initial Link Setup discovery frame, a management frame, or a control frame.

10. The wireless station of claim 9, further comprising a backoff timer in communication with the processor, the backoff timer being set to the medium access backoff time, wherein the transceiver attempts to send a communication after the backoff timer has expired.

11. The wireless station of claim 7, wherein the medium access backoff time is a slot time.

12. The wireless station of claim 7, wherein the transceiver is configured to signal the medium access backoff time using at least one of a beacon or a short beacon.

Claims

1. A method to provide access to a medium, the method comprising:
receiving a time value at a wireless station;
receiving a traffic indication map at the wireless station;
determining a backoff number at the wireless station as a function of at least one of a position of the wireless station within the traffic indication map or an association identifier (AID) associated with the wireless station; and
determining a medium access backoff time by multiplying the backoff number by the time value.
2. The method of claim 1, wherein the time value is a fixed value.
3. The method of claim 1, wherein the time value is received at the wireless station via one of a beacon or a short beacon.
4. The method of claim 1, further comprising:
setting a backoff timer at the wireless station with the medium access backoff time;
and
attempting to send a communication by the wireless station after the backoff timer has expired.
5. The method of claim 1, wherein the medium access backoff time is a slot time.
6. The method of claim 1, further comprising signaling the medium access backoff time using at least one of a beacon or a short beacon.

7. A wireless station comprising:
a transceiver configured to receive a time value and a traffic indication map; and
a processor in communication with the transceiver, the processor configured to
determine a backoff number for the wireless station as a function of at least
one of a position of the wireless station within the traffic indication map or an association
identifier (AID) associated with the wireless station; and
determine a medium access backoff time for the wireless station by
multiplying the backoff number by the time value.
8. The wireless station of claim 7, wherein the time value is a fixed value.
9. The wireless station of claim 7, wherein the wireless station receives the
time value via one of a beacon or a short beacon.
10. The wireless station of claim 9, further comprising a backoff timer in
communication with the processor, the backoff timer being set to the medium access
backoff time, wherein the transceiver attempts to send a communication after the backoff
timer has expired.
11. The wireless station of claim 7, wherein the medium access backoff time is a
slot time.
12. The wireless station of claim 7, wherein the transceiver is configured to
signal the medium access backoff time using at least one of a beacon or a short beacon.