

Quiz 6 Solution

1. Explain the differences between 802.11 DCF and 802.15.4 CSMA-CA

	802.11 DCF	802.15.4 CSMA-CA
CCA	continuous	non-continuous
CCA at BC=0	once	twice
Beacon	O	O(slotted mode)/X(unslotted mode)
RTS/CTS NAV	O	X
no-ACK for unicast frames	X	possible

2. Explain the power saving features of the 802.15.4 MAC

- CCA detection only when the backoff counter becomes zero rather than every time slot
- Inactive mode in superframes
- Extracting pending messages from coordinator