Priority Assertion Signal Impacts on CCA

- Priority Assertion Signal (PAS) is not a complete frame. May be some or all of the radio preamble.
- Detection of PAS could be different than detection of normal frame (Radio Preamble).
- Detection of PAS should be reliable in presence of collision.
- Probability of collision is higher for PAS than a normal frame.
- CCA is required to detect both PAS and Radio Preamble at any point in time.
- A PAS could collide with a frame.

Effects of Unreliable Detection of PAS

- False Detection of PAS
  - Causes station to unnecessarily defer
- Undetected PAS
  - Could preempt or collide with higher priority traffic
Priority Assertion Signal and Hidden Station

- A hidden station will not detect the PAS.
- The PAS from the hidden station may collide with a frame or may cause the media to appear busy to a higher priority station.

Priority Assertion Signal Detection

- Station A transmits PAS_A
- Station B does not detect PAS_A
- Station B transmits PAS_B in a later Priority Resolution Slot.
- PAS_B could collide with a frame from Station A or preempt Station A if it detects PAS_B