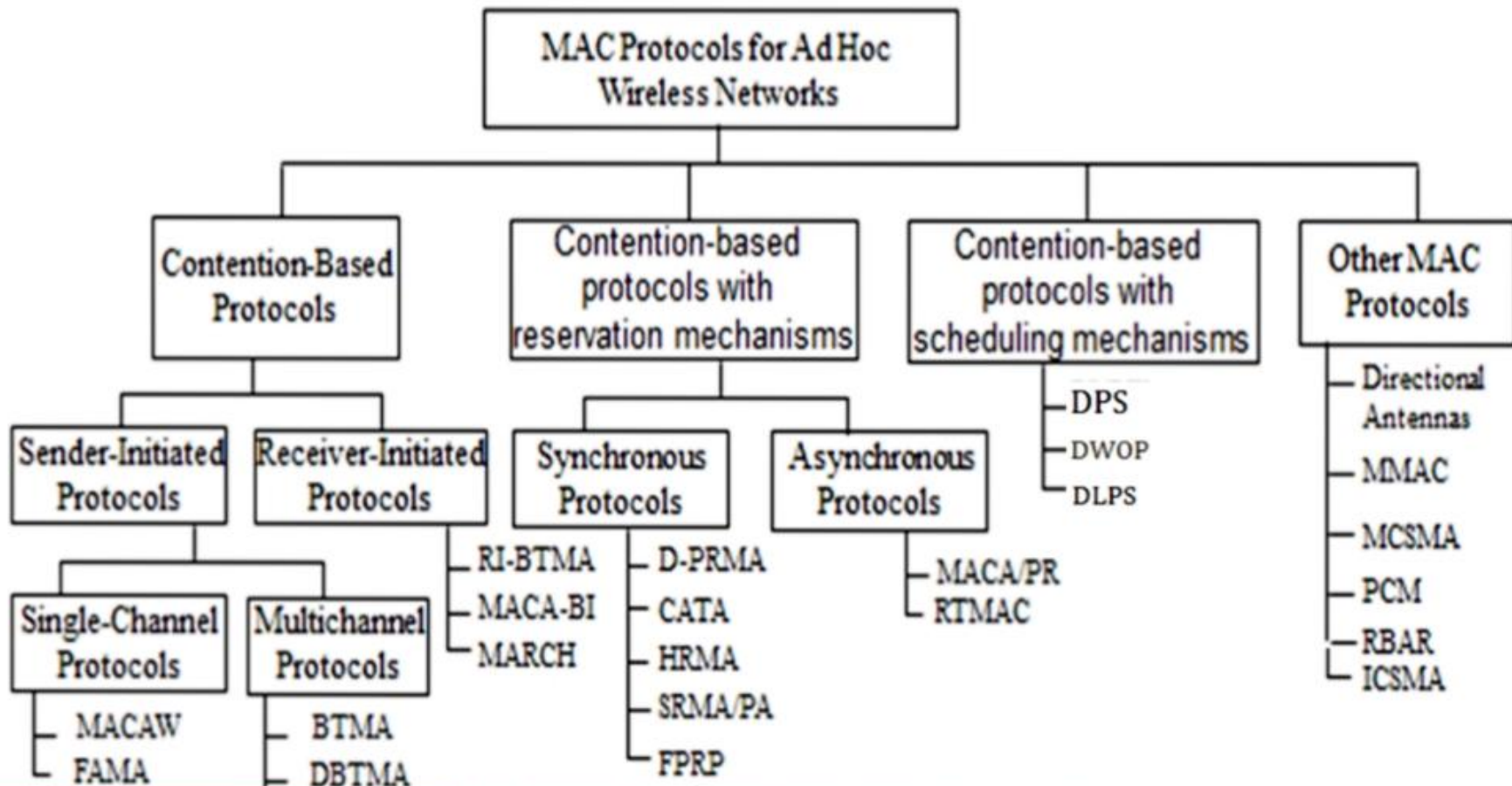


Classifications of MAC Protocols:

- ✓ Ad hoc network MAC protocols can be classified into three types:
 - ❖ Contention-based protocols
 - ❖ Contention-based protocols with reservation mechanisms
 - ❖ Contention-based protocols with scheduling mechanisms
 - ❖ Other MAC protocols



MACAW: (MACA for Wireless) is a revision of MACA.

- The sender transmits a **RTS (Request To Send)** frame if no nearby station transmits a RTS.
- The receiver replies with a **CTS (Clear To Send)** frame.
- *Neighbors*
 - see CTS, then keep quiet.
 - see RTS but not CTS, then keep quiet until the CTS is back to the sender.
- The receiver sends an ACK when receiving an frame.
 - Neighbors keep silent until see ACK.
- Collisions
 - There is no collision detection.
 - The senders know collision when they don't receive CTS.
 - They each wait for the exponential back-off time.

