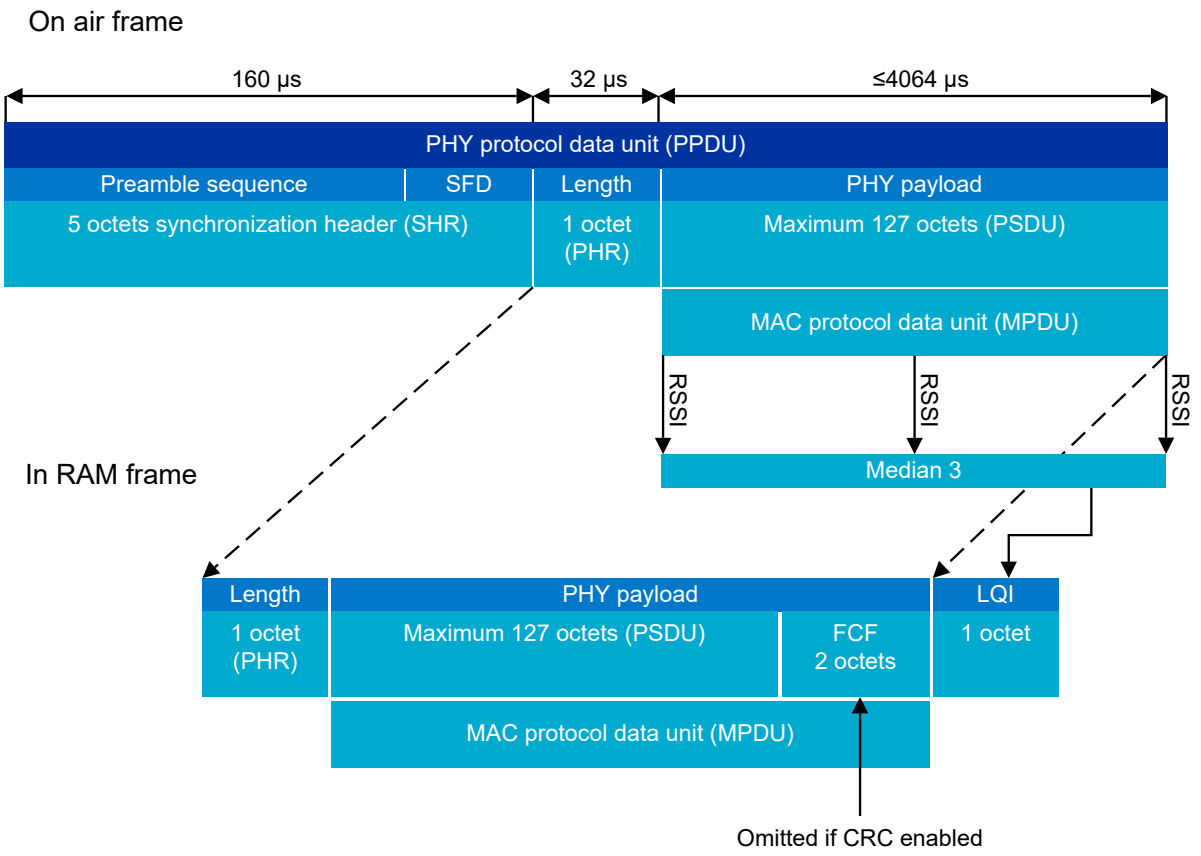

Figure 129: IEEE 802.15.4 frame in data memory

A shortcut has been added between the FRAMESTART event and the BCSTART task. This can be used to trigger a BCMATCH event after N bits, such as when inspecting the MAC addressing fields.

8.17.12.8 Interframe spacing (IFS)

IEEE 802.15.4 defines a specific time that is allotted for the MAC sublayer to process received data. The interframe spacing (IFS) is used to prevent two frames from being transmitted too close together. If the transmission is requesting an acknowledgement, the space before the second frame must be at least one IFS period.

IFS is determined to be one of the following:

- IFS = macMinSIFSPeriod (12 symbols) if MPDU ≤ aMaxSIFSFrameSize (18 octets) octets
- IFS = macMinLIFSPeriod (40 symbols) if MPDU > aMaxSIFSFrameSize

Using the efficient assisted modes in RADIO, the TIFS will be programmed with the correct value based on the frame being transmitted. If the assisted modes are not in use, the TIFS register must be updated manually. The following figure shows what IFS period is valid in both acknowledged and unacknowledged transmissions.