

Aggregate Frames (A-MPDU/A-MSDU)

CWNA-109 Objective: 3.2.2

Recall that:

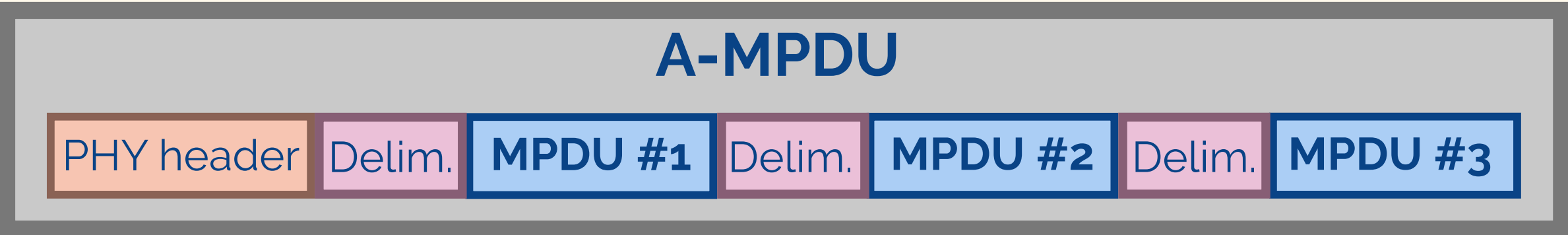
MSDU - MAC Service Data Unit.
Upper-layer service data not interpreted by layer 2. (L3-7 data)



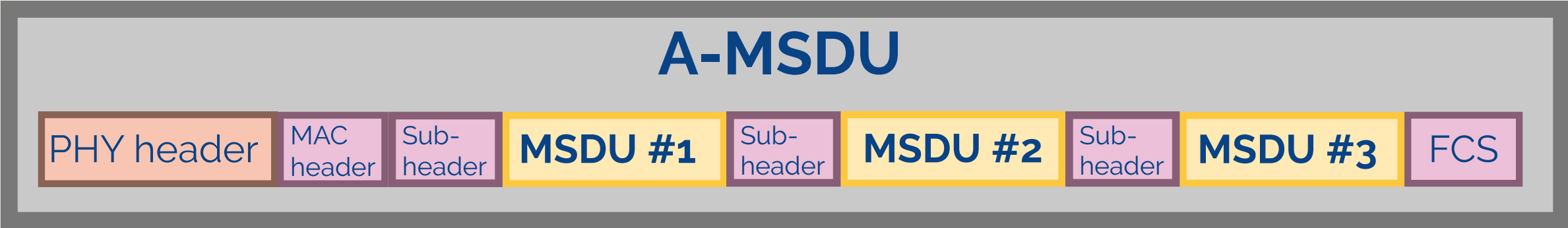
MPDU - MAC Protocol Data Unit.
The whole 802.11 frame with MAC headers and FCS.



A-MPDU - Multiple MPDUs are attached together with a single PHY header. Each MPDU has its own MAC header and FCS.



A-MSDU - Multiple MSDUs are attached together, sharing the same PHY header, MAC header and FCS.



A-MPDU and A-MSDU are often used together in practice.

Check for **A-MPDU** use in the radiotap header.

```
▼ A-MPDU status
  A-MPDU reference number: 10099
  > A-MPDU flags: 0x0000
```

Filter: *radiotap.ampdu*

Check for **A-MSDU** use in QoS Data > QoS Control

```
▼ Qos Control: 0x3790
  .... 0000 = TID: 0
  [.... .000 = Priority: Best Effort
  .... 1 .... = QoS bit 4: Bits 8-15 of
  .... .00. .... = Ack Policy: Normal Ack
  .... 1... .... = Payload Type: A-MSDU
```

Filter: *wlan.qos.amsdupresent == True*