

802.3ar Frame Expansion

Proposed changes to Clause 3

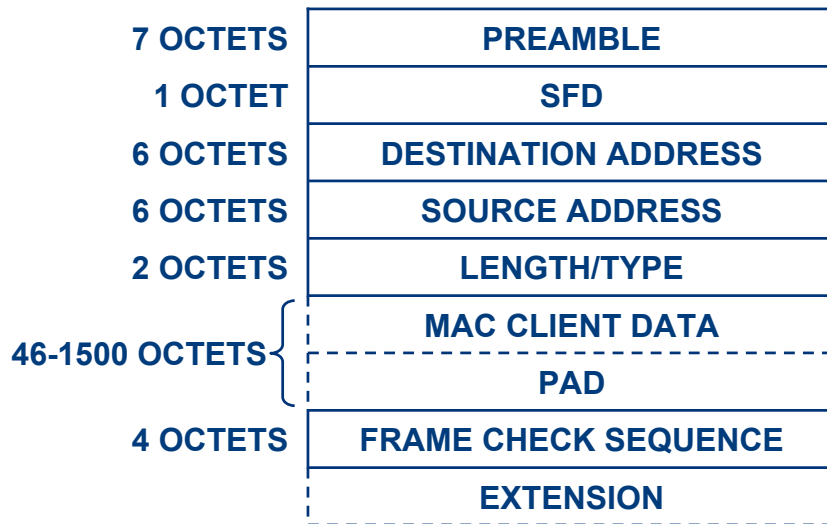
Kevin Daines

13 July 2004

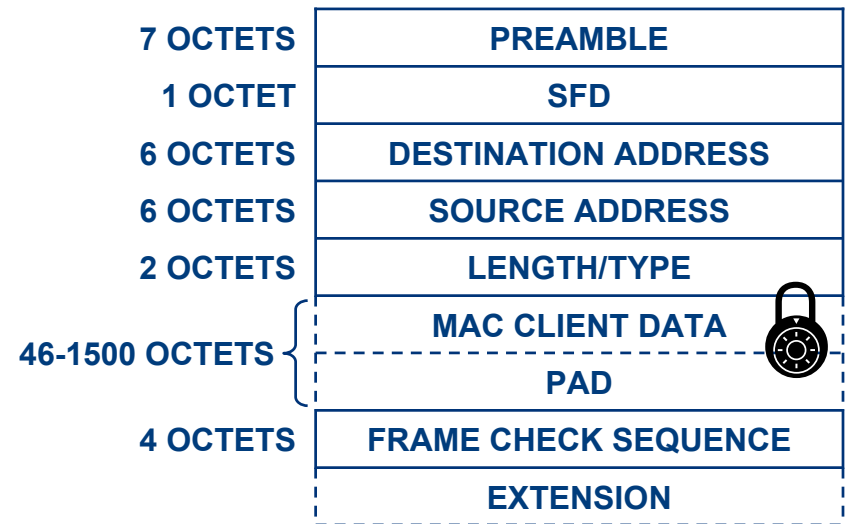
Agenda

- **Figure 3-1**
- **Figure 3-3**
- **Frame sizes**
- **Sample frames**

Figure 3-1

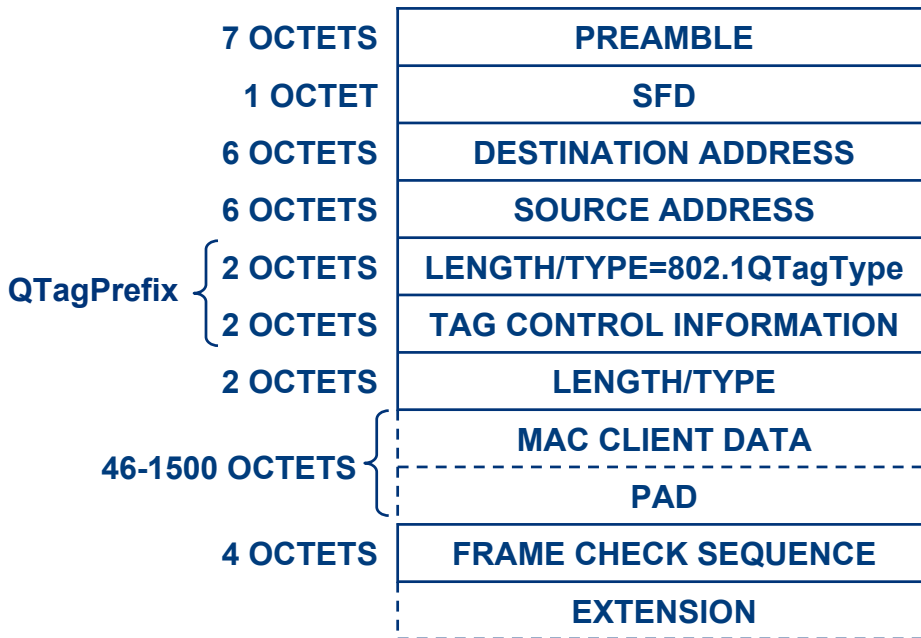


IEEE 802.3-2002/Figure 3-1
MAC frame format

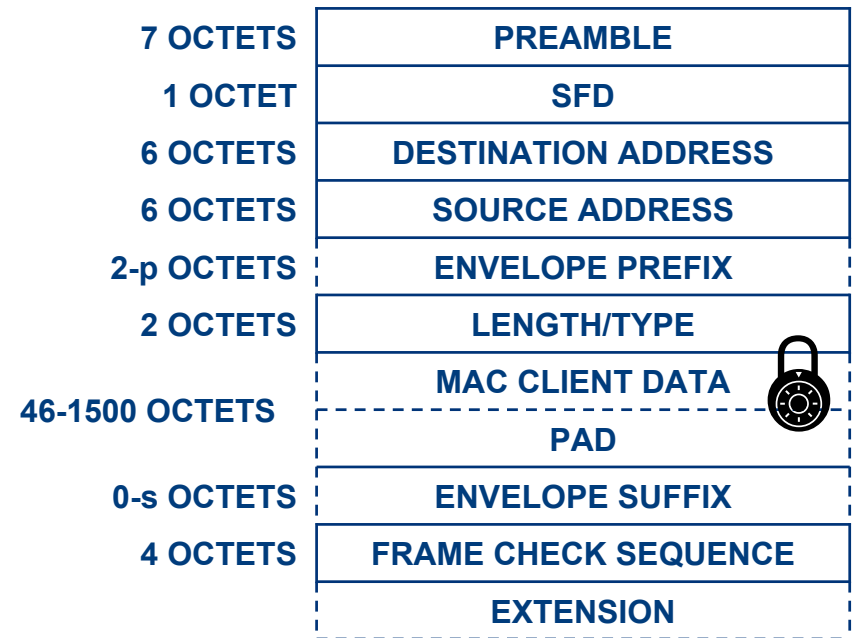


IEEE 802.3ar/Figure 3-1
MAC frame format

Figure 3-3



IEEE 802.3-2002/Figure 3-3
Tagged MAC frame format



IEEE 802.3ar/Figure 3-3
Envelope MAC frame format

p is 2 to max[2, TBD – suffixSize]


s is 0 to max[0, TBD – prefixSize]

Frame sizes

Frame Sizes	802.3-2002	802.3ar
Minimum basic MAC frame size	64 octets	64 octets
Maximum basic MAC frame size	1518 octets	1518 octets
Minimum Tagged MAC frame size	64 octets	N/A
Maximum Tagged MAC frame size	1522 octets	N/A
Minimum <i>Envelope</i> MAC frame size	N/A	68 octets
Maximum <i>Envelope</i> MAC frame size	N/A	TBD octets


Sample frames (1/4)

Basic MAC frame

6 OCTETS	DA
6 OCTETS	SA
2 OCTETS	L/T
46-1500 OCTETS	MAC CLIENT DATA 
4 OCTETS	FCS
<hr/>	
64-1518 OCTETS	

802.1Q Tagged Frame

Envelope MAC frame

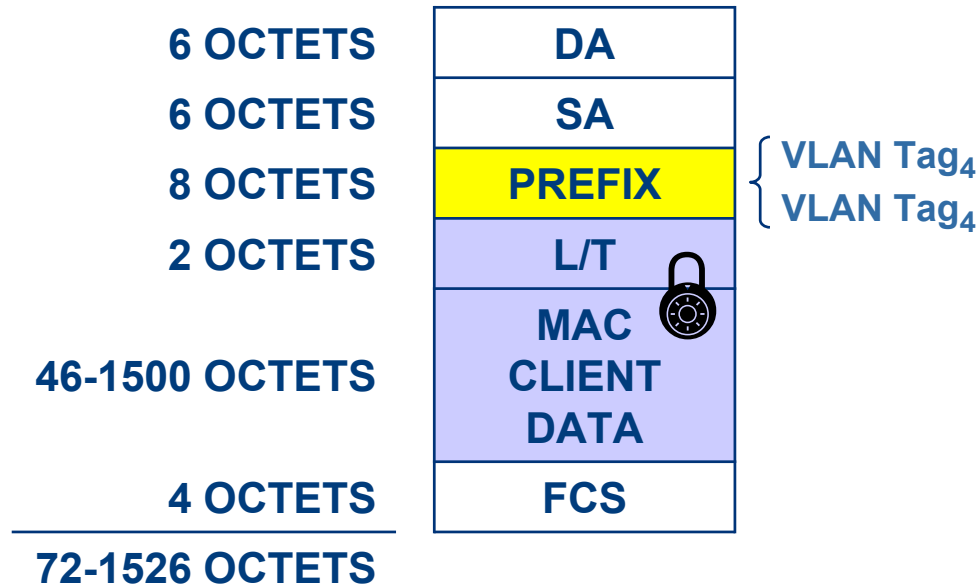
6 OCTETS	DA
6 OCTETS	SA
4 OCTETS	PREFIX
2 OCTETS	L/T
46-1500 OCTETS	MAC CLIENT DATA 
4 OCTETS	FCS
<hr/>	
68-1522 OCTETS	

PREFIX=4, SUFFIX=0

Sample frames (2/4)

802.1ad Double Tagged Frame

Envelope MAC frame

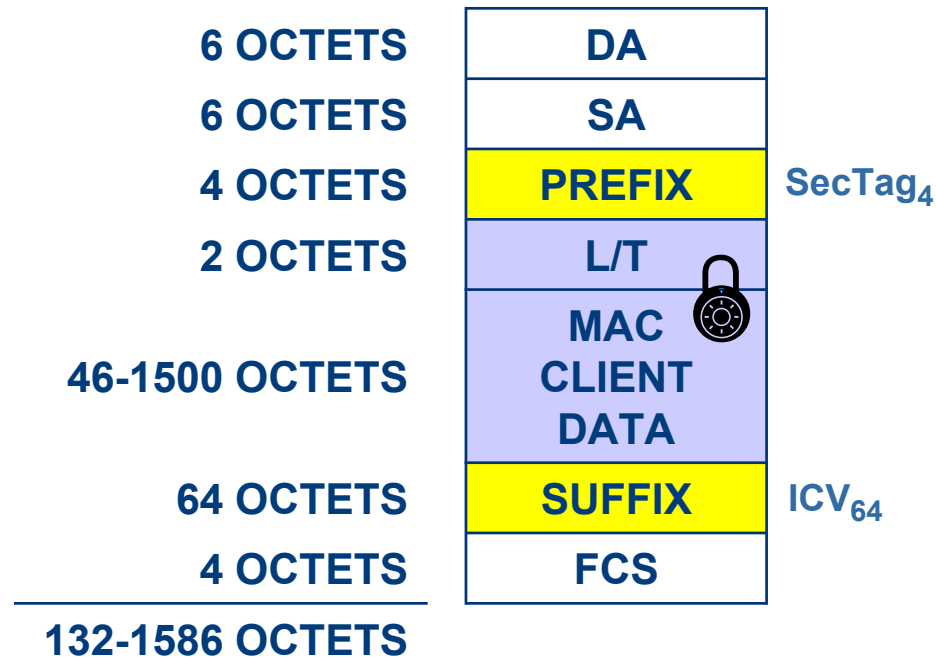


PREFIX=8, SUFFIX=0

Sample frames (3/4)

802.1AE MACSec Frame

Envelope MAC frame

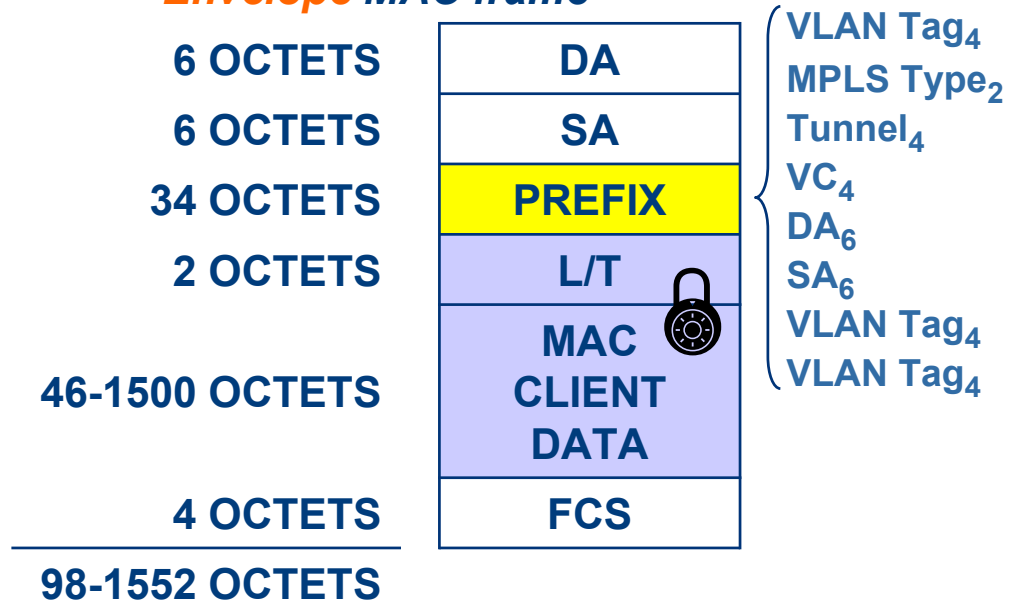


PREFIX=4, SUFFIX=64

Sample frames (4/4)

MPLS

Envelope MAC frame



PREFIX=34, SUFFIX=0