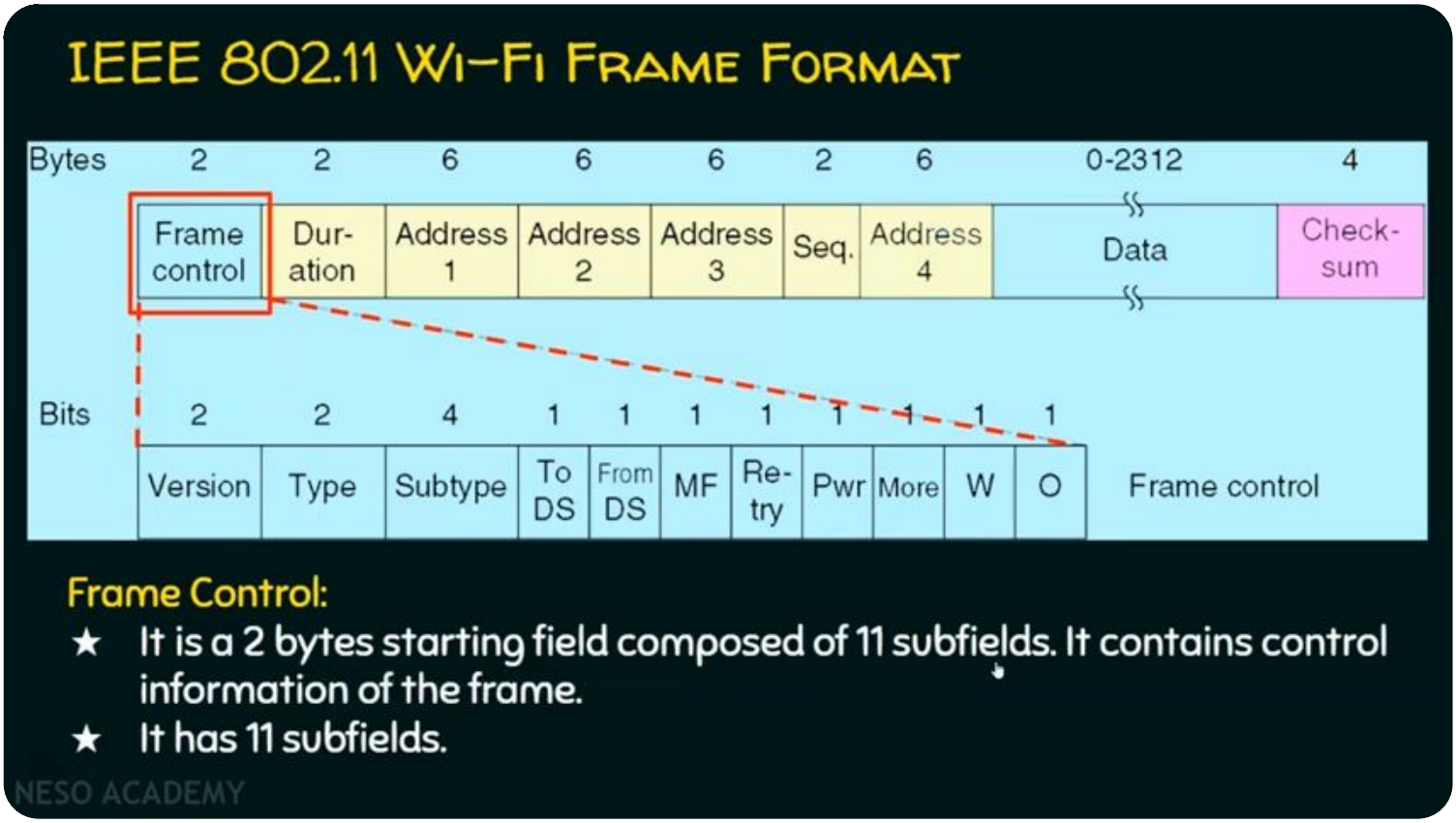
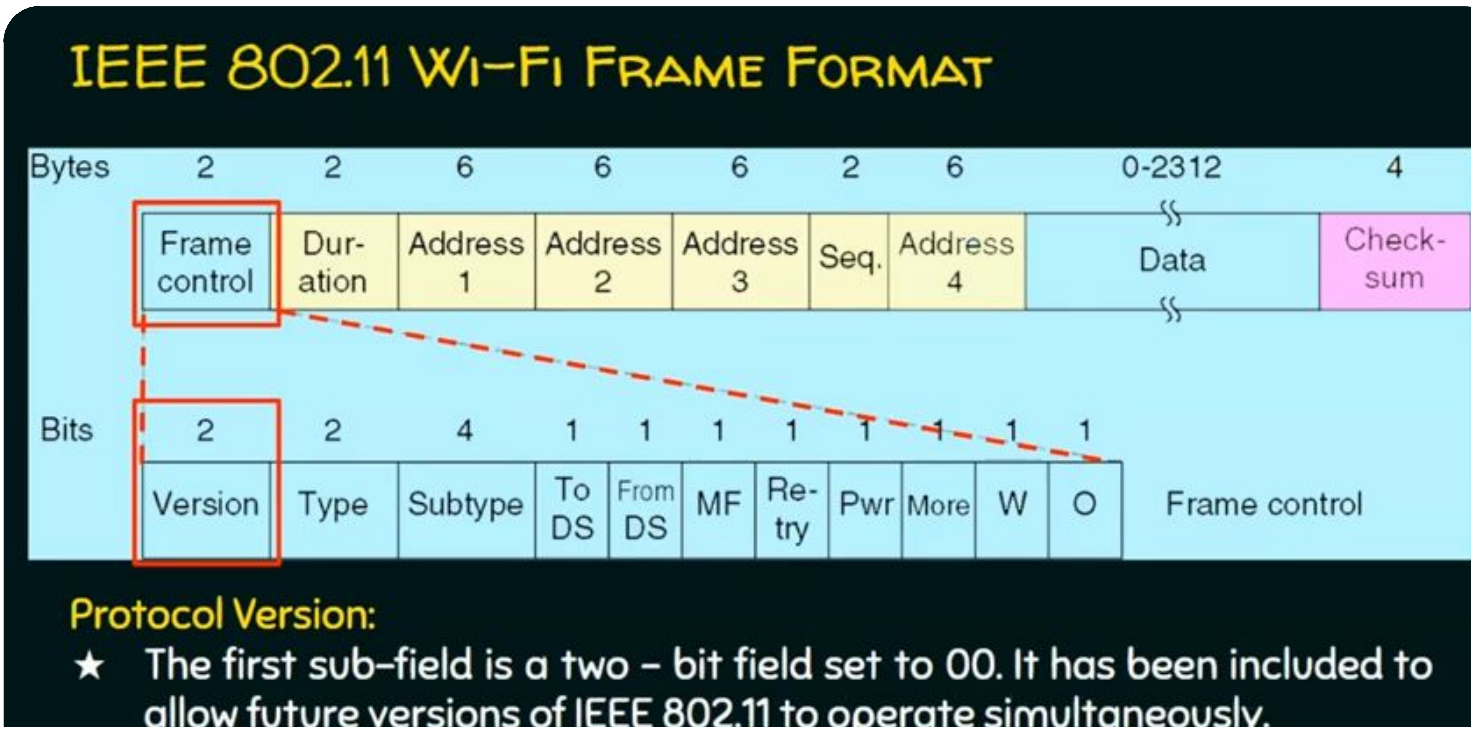
01:08

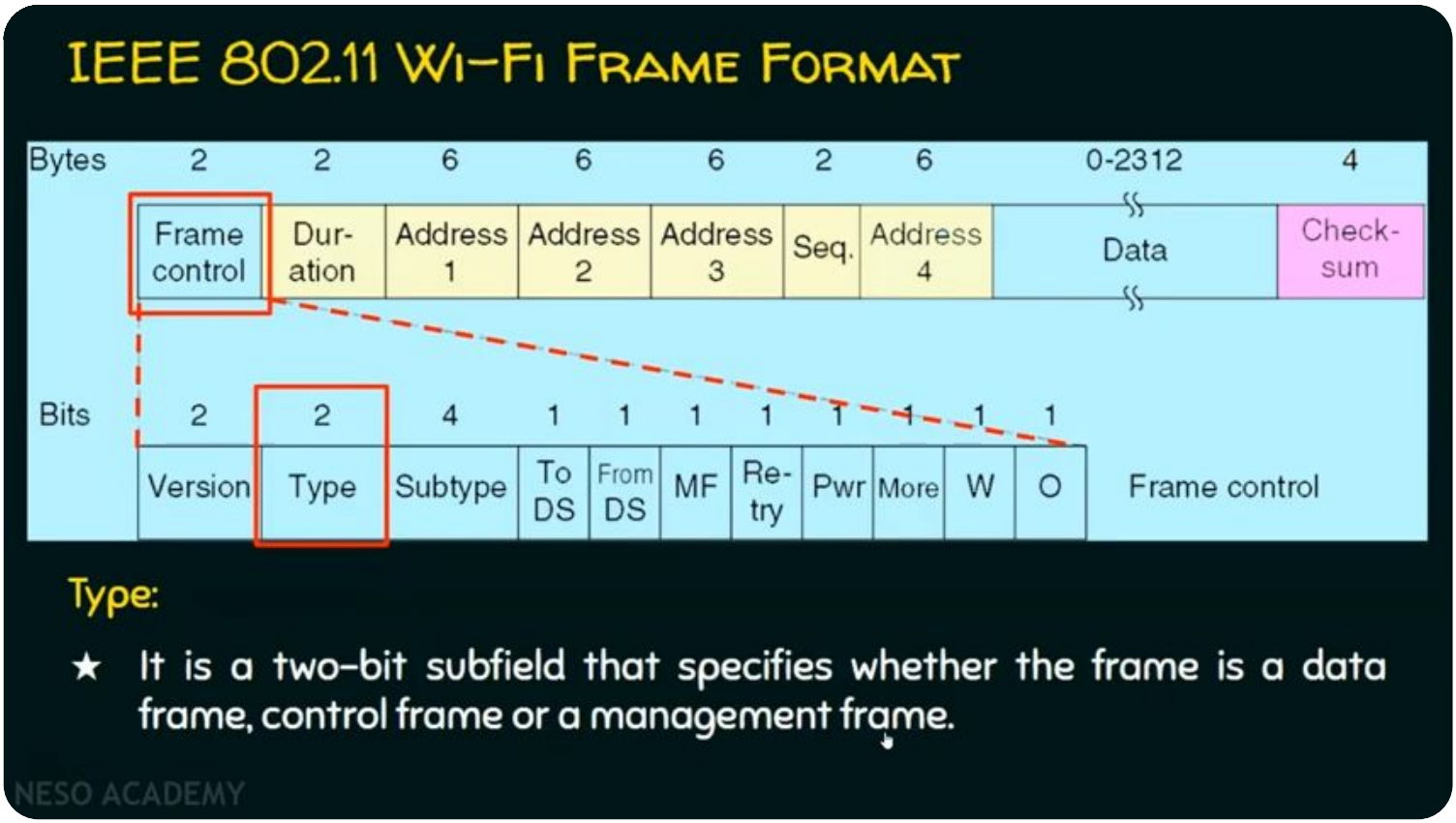


01:35

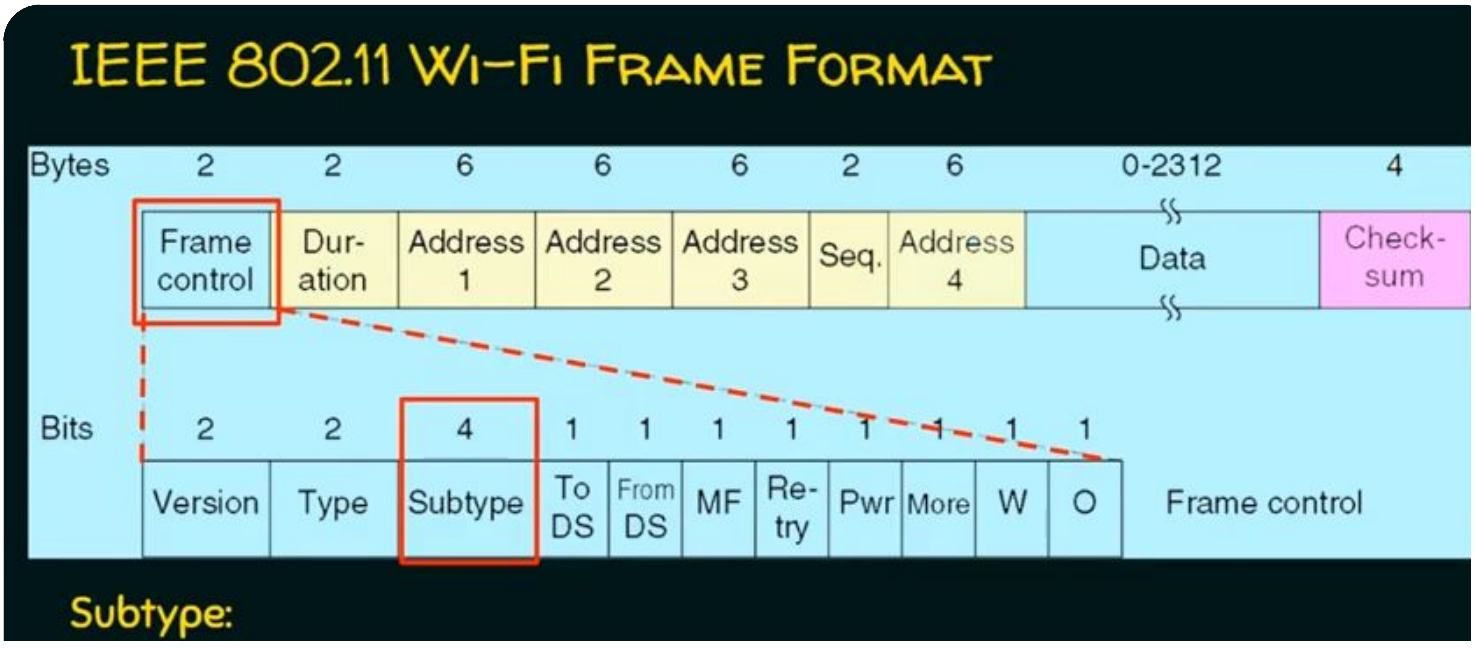


NESO ACADEMY

02:02



02:36

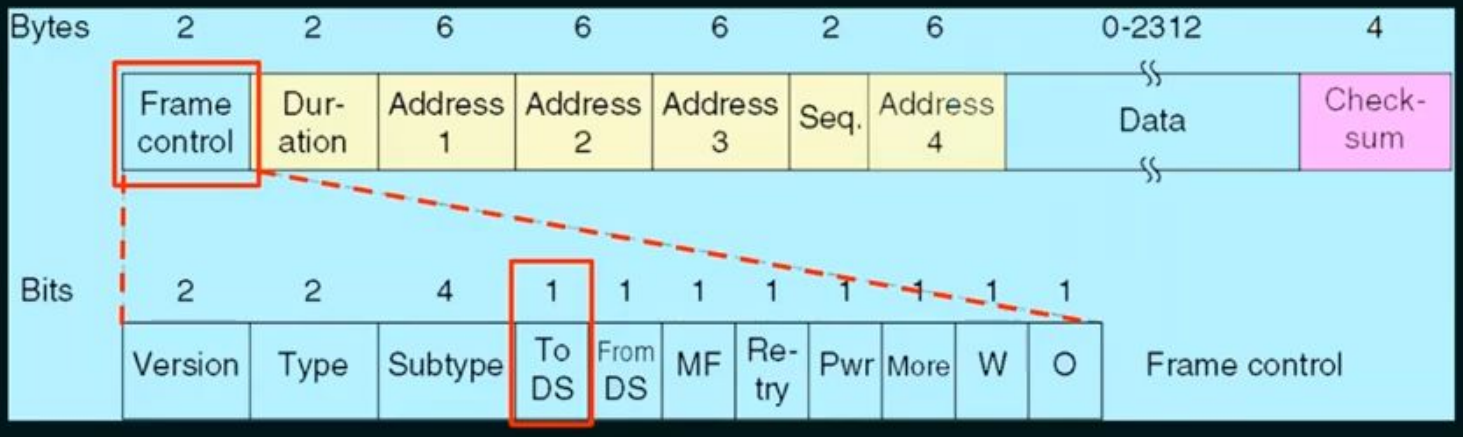


★ It is a four – bit subfield states whether the field is a Request to Send (RTS) or a Clear to Send (CTS) control frame. For a regular data frame, the value is set to 0000.

NESO ACADEMY

03:08

IEEE 802.11 Wi-Fi Frame Format



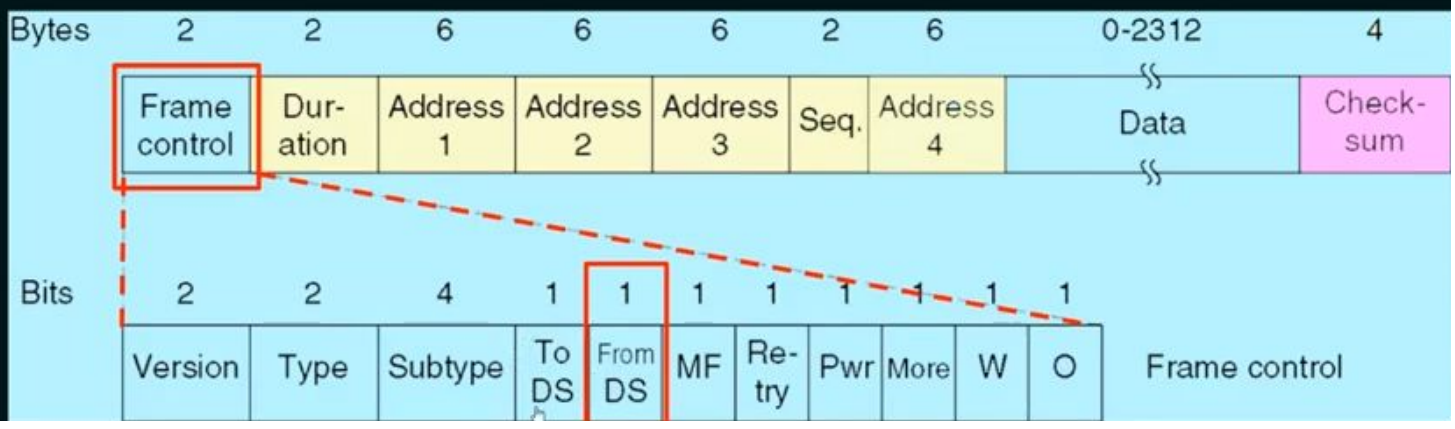
To DS:

★ A single bit subfield indicating whether the frame is going to the access point (AC), which coordinates the communications in centralised wireless systems.

NESO ACADEMY

03:26

IEEE 802.11 Wi-Fi Frame Format



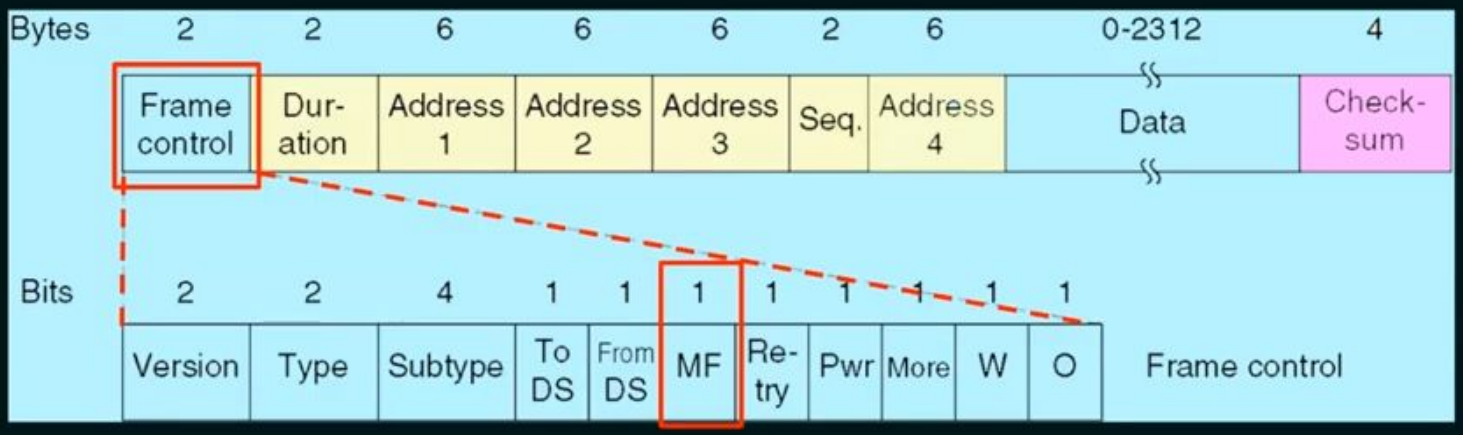
From DS:

★ A single bit subfield indicating whether the frame is coming from the Access point.

NESO ACADEMY

03:40

IEEE 802.11 Wi-Fi Frame Format



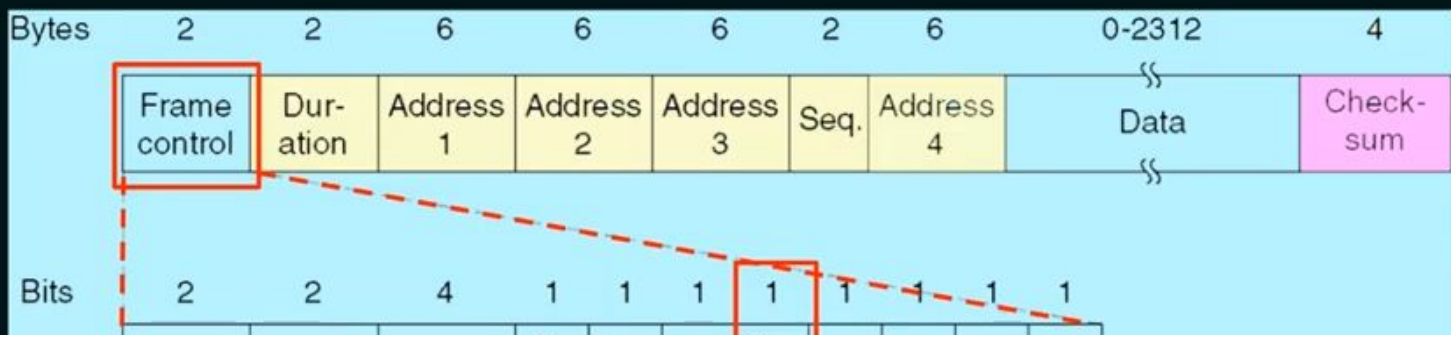
More Fragments:

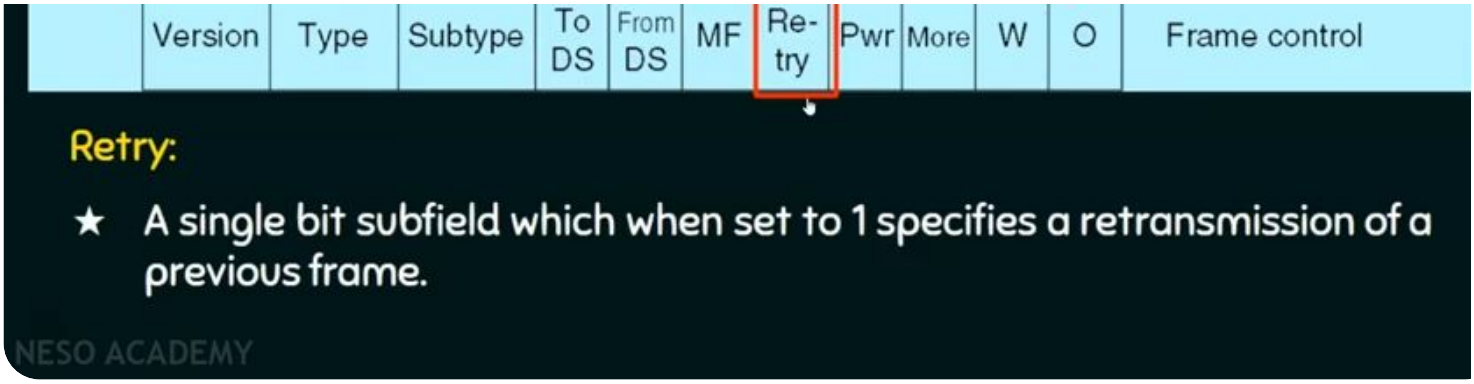
★ A single bit subfield which when set to 1 indicates that more fragments would follow.

NESO ACADEMY

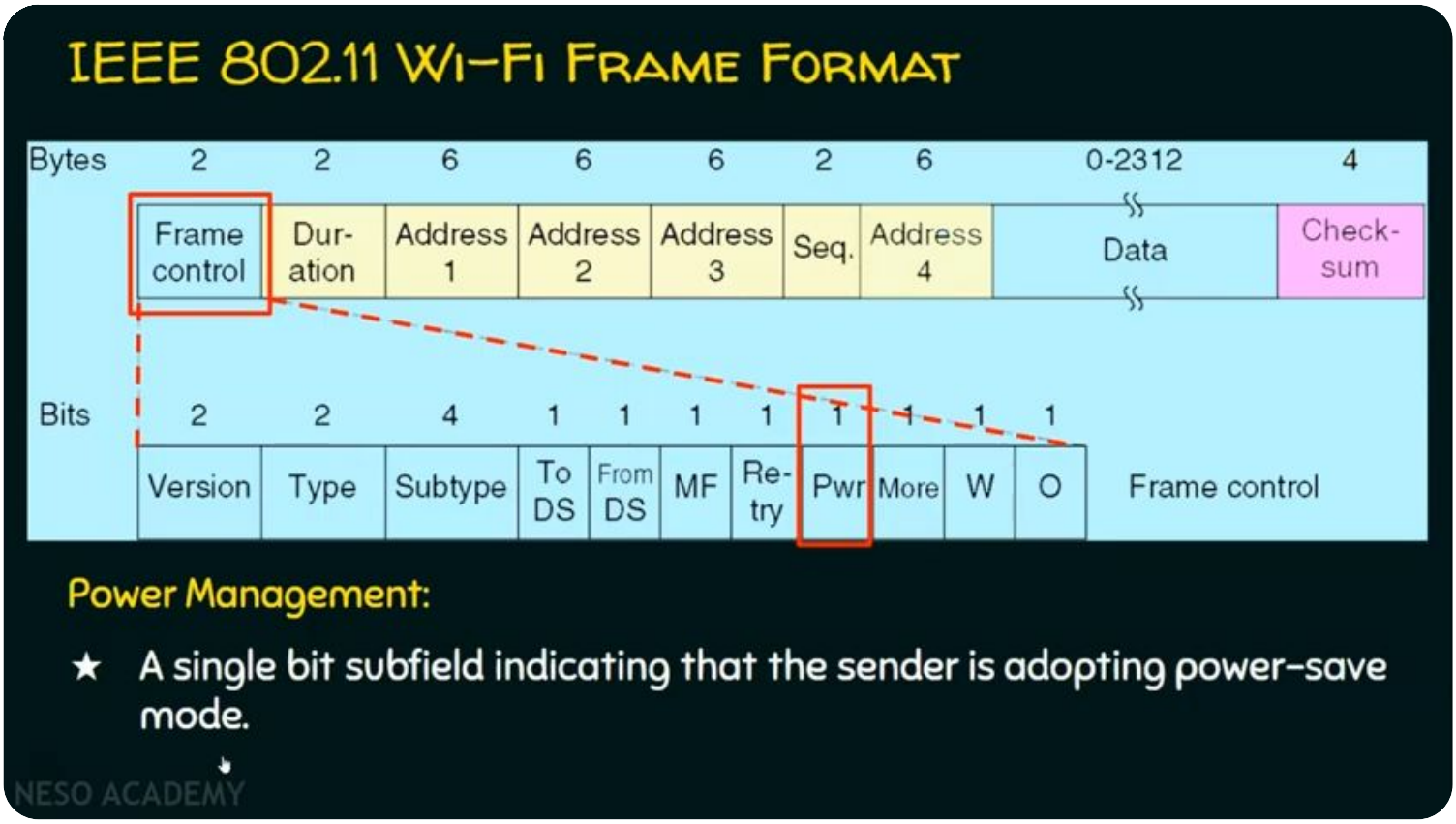
04:00

IEEE 802.11 Wi-Fi Frame Format

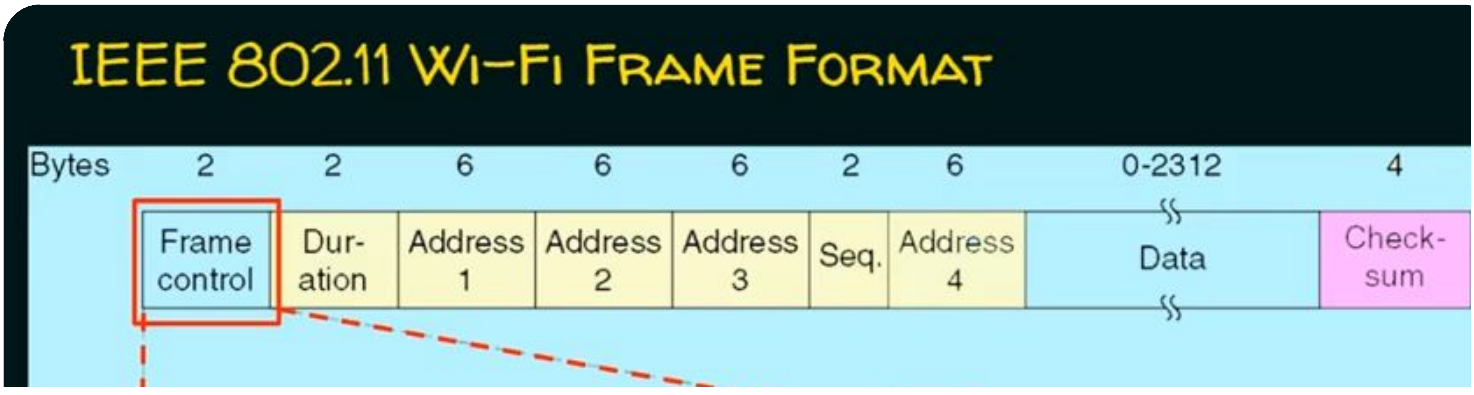


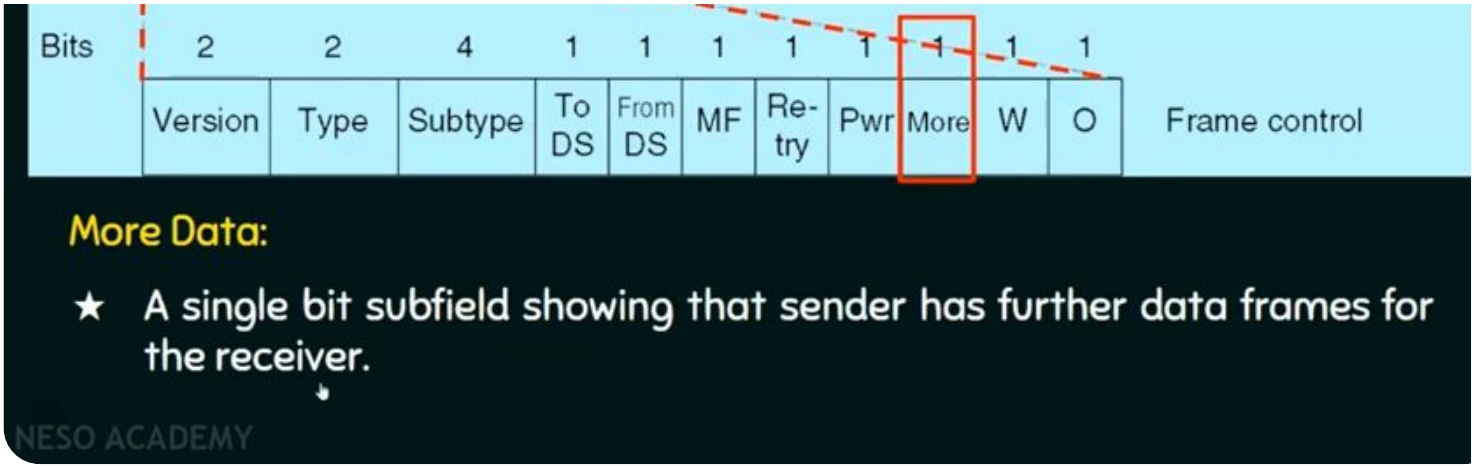

Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
Retry:
★ A single bit subfield which when set to 1 specifies a retransmission of a previous frame.
NESO ACADEMY

04:12

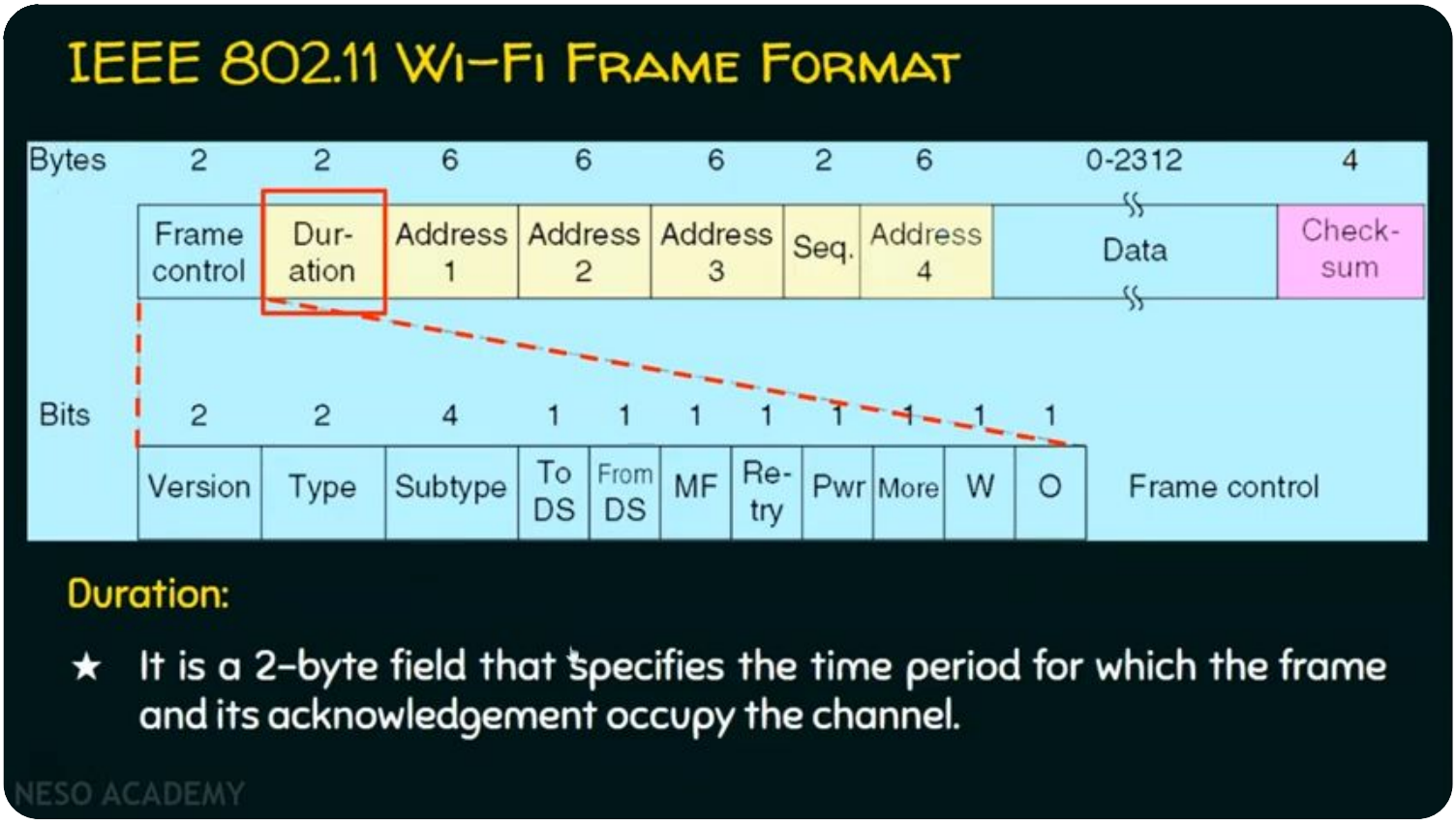

IEEE 802.11 Wi-Fi Frame Format
Bytes
2
2
6
6
6
2
6
0-2312
4
Frame control
Dur-ation
Address 1
Address 2
Address 3
Seq.
Address 4
Data
Check-sum
Bits
2
2
4
1
1
1
1
1
1
1
1
Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
Power Management:
★ A single bit subfield indicating that the sender is adopting power-save mode.
NESO ACADEMY

04:22


IEEE 802.11 Wi-Fi Frame Format
Bytes
2
2
6
6
6
2
6
0-2312
4
Frame control
Dur-ation
Address 1
Address 2
Address 3
Seq.
Address 4
Data
Check-sum

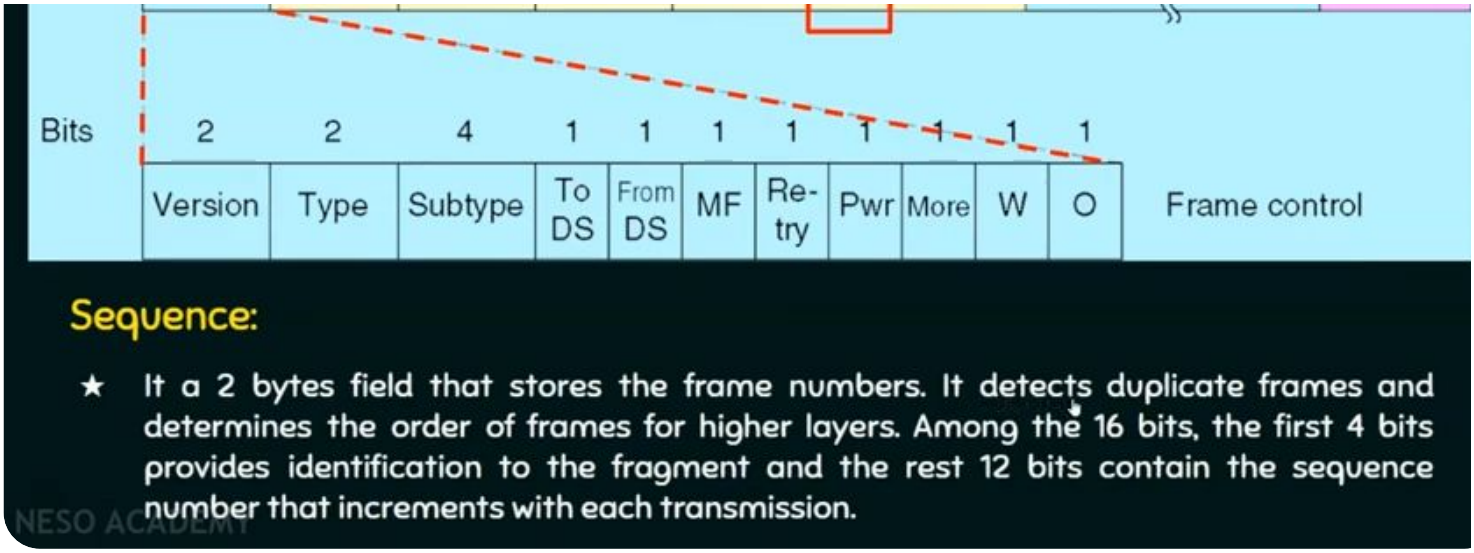

Bits
2 2 4 1 1 1 1 1 1 1 1
Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
More Data:
★ A single bit subfield showing that sender has further data frames for the receiver.
NESO ACADEMY

05:11

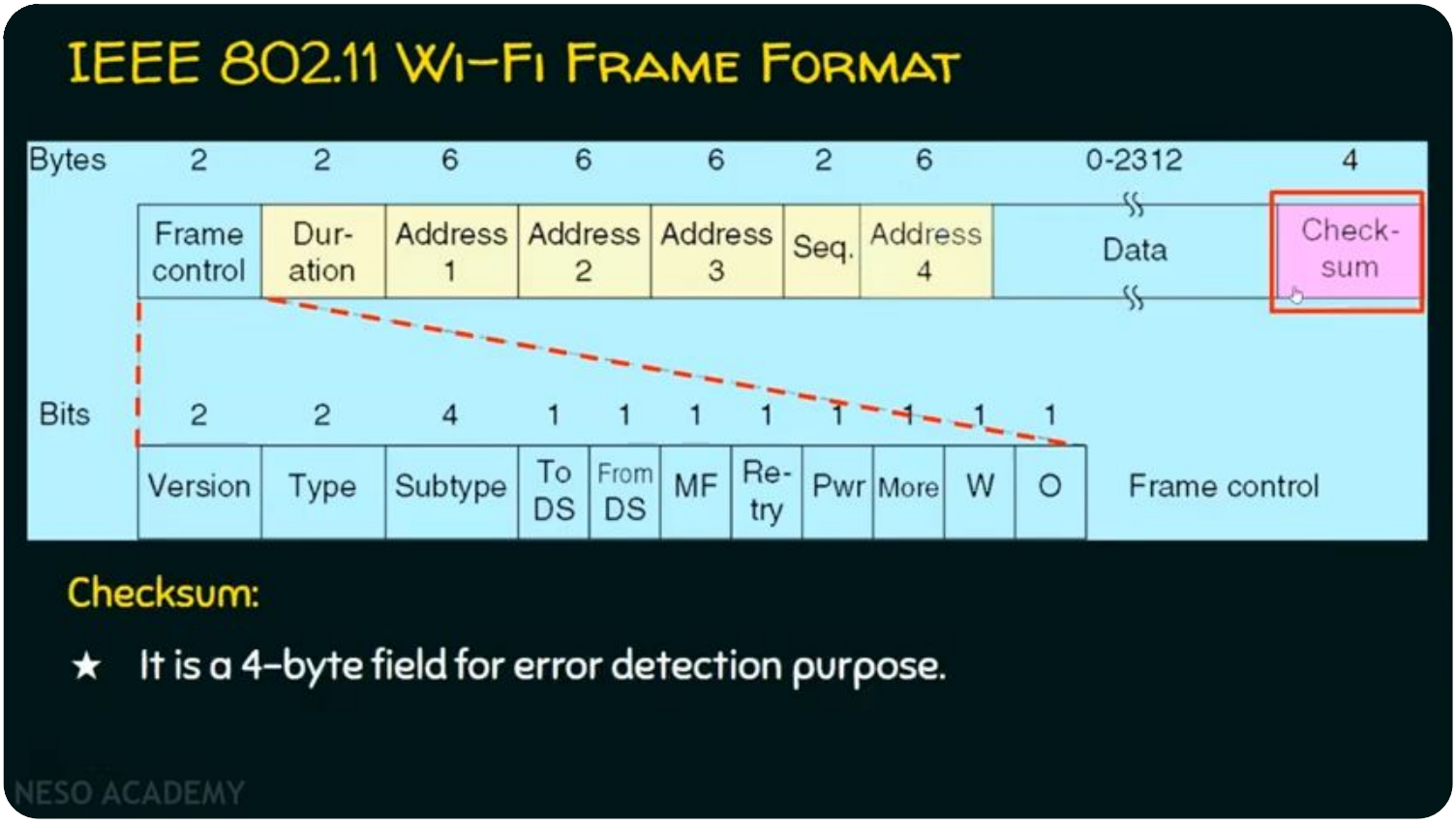

IEEE 802.11 Wi-Fi Frame Format
Bytes
2 2 6 6 6 2 6 0-2312 4
Frame control
Dur-ation
Address 1
Address 2
Address 3
Seq.
Address 4
Data
Check-sum
Bits
2 2 4 1 1 1 1 1 1 1 1
Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
Duration:
★ It is a 2-byte field that specifies the time period for which the frame and its acknowledgement occupy the channel.
NESO ACADEMY

07:07

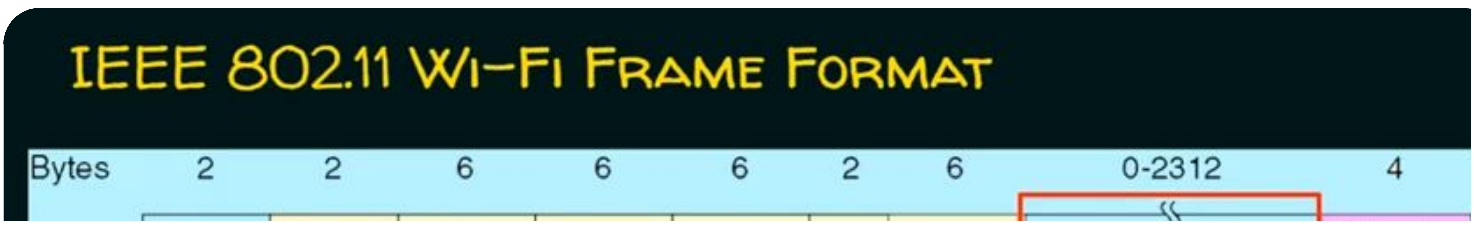

IEEE 802.11 Wi-Fi Frame Format
Bytes
2 2 6 6 6 2 6 0-2312 4
Frame control
Dur-ation
Address 1
Address 2
Address 3
Seq.
Address 4
Data
Check-sum


Bits
2 2 4 1 1 1 1 1 1 1 1
Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
Sequence:
★ It a 2 bytes field that stores the frame numbers. It detects duplicate frames and determines the order of frames for higher layers. Among the 16 bits, the first 4 bits provides identification to the fragment and the rest 12 bits contain the sequence number that increments with each transmission.
NESO ACADEMY

08:15


IEEE 802.11 Wi-Fi Frame Format
Bytes
2 2 6 6 6 2 6 0-2312 4
Frame control
Dur-ation
Address 1
Address 2
Address 3
Seq.
Address 4
Data
Check-sum
Bits
2 2 4 1 1 1 1 1 1 1 1
Version
Type
Subtype
To DS
From DS
MF
Re-try
Pwr
More
W
O
Frame control
Checksum:
★ It is a 4-byte field for error detection purpose.
NESO ACADEMY

08:00


IEEE 802.11 Wi-Fi Frame Format
Bytes
2 2 6 6 6 2 6 0-2312 4

Data:

★ This is a variable sized field that carries the payload from the upper layers. The maximum size of data field is 2312 bytes.