

ENTERPRISE INFRASTRUCTURE AND NETWORKS

IT 520

Lab #7

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Due to: 04/08/2019

Include a terminal screenshot showing computer IP address on the front page.

173.31.99.96



Question #1:

What are the SSIDs of the two access points that are issuing most of the beacon frames in this trace?

SSID: linksys_SES_24086

SSID: 30 Munroe St

The image displays two separate instances of the Wireshark network traffic analyzer. Both instances are viewing a capture file named 'Wireshark_802_11.pcap' taken on port 1883 at Mon 2:49 PM and Mon 2:59 PM.

Top Wireshark Instance (Mon 2:49 PM):

- Selected Frame:** A Beacon frame from 'LinksysG_67...' (MAC address 00:0c:bb:98:28:00) with SN=3479, FN=0, Flags=.....C.
- Frame Content:** Detailed hex and ASCII dump of the selected frame, showing fields like Radiator Header, IEEE 802.11 wireless LAN parameters, and Tagged parameters (SSID parameter set: 30 Munroe St).
- Statistics:** Shows 2364 total packets and 100.0% displayed.

Bottom Wireshark Instance (Mon 2:59 PM):

- Selected Frame:** A Beacon frame from 'LinksysG_67...' (MAC address 00:0c:bb:98:28:00) with SN=3484, FN=0, Flags=.....C.
- Frame Content:** Detailed hex and ASCII dump of the selected frame, showing fields like Radiator Header, IEEE 802.11 wireless LAN parameters, and Tagged parameters (SSID parameter set: linksys_SES_24086).
- Statistics:** Shows 2364 total packets and 100.0% displayed.

In both instances, the right side of the interface shows a file browser with several folders labeled in Arabic: CNBLUE, المحوت, المعهد, آن سطام, آن بارا, وآرچ حامد.

Question #2:

What are the intervals of time between the transmissions of the beacon frames the *linksys_ses_24086* access point? From the *30 Munroe St.* access point? (Hint: this interval of time is contained in the beacon frame itself).

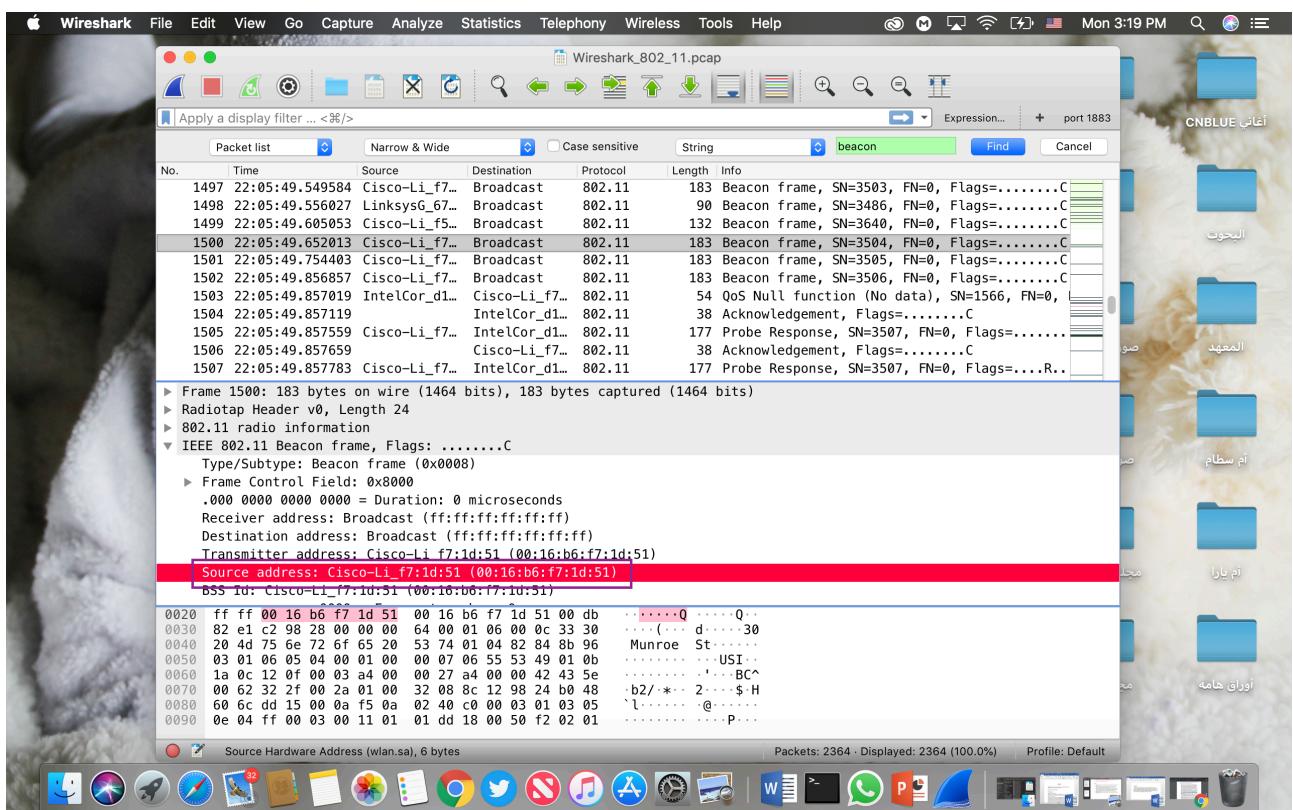
The beacon interval for both access points is 0.102400 [Seconds].

The image displays two separate instances of the Wireshark network traffic analyzer. Both instances are viewing a file named "Wireshark_802_11.pcap" captured on port 1883. The top instance shows a list of packets, with the 1497th packet selected. This packet is a Beacon frame from the Cisco-Li_f7 access point at 22:05:49.549584. The detailed view pane shows the IEEE 802.11 wireless LAN header, which includes a "Beacon Interval: 0.102400 [Seconds]" entry. The bottom instance shows a similar list and detailed view of a Beacon frame from the Cisco-Li_f7 access point at 22:05:49.549584. In its detailed view, it also highlights the "Beacon Interval: 0.102400 [Seconds]" entry under the IEEE 802.11 wireless LAN header. Both screenshots are taken on a Mac OS X desktop, with the Wireshark interface showing various toolbars and a status bar indicating "Mon 3:07 PM".

Question #3:

What (in hexadecimal notation) is the source MAC address on the beacon frame from *30 Munroe St*? Recall from Figure 7.13 in the text that the source, destination, and BSS are three addresses used in an 802.11 frame. For a detailed discussion of the 802.11 frame structure, see section 7 in the IEEE 802.11 standards document (cited above).

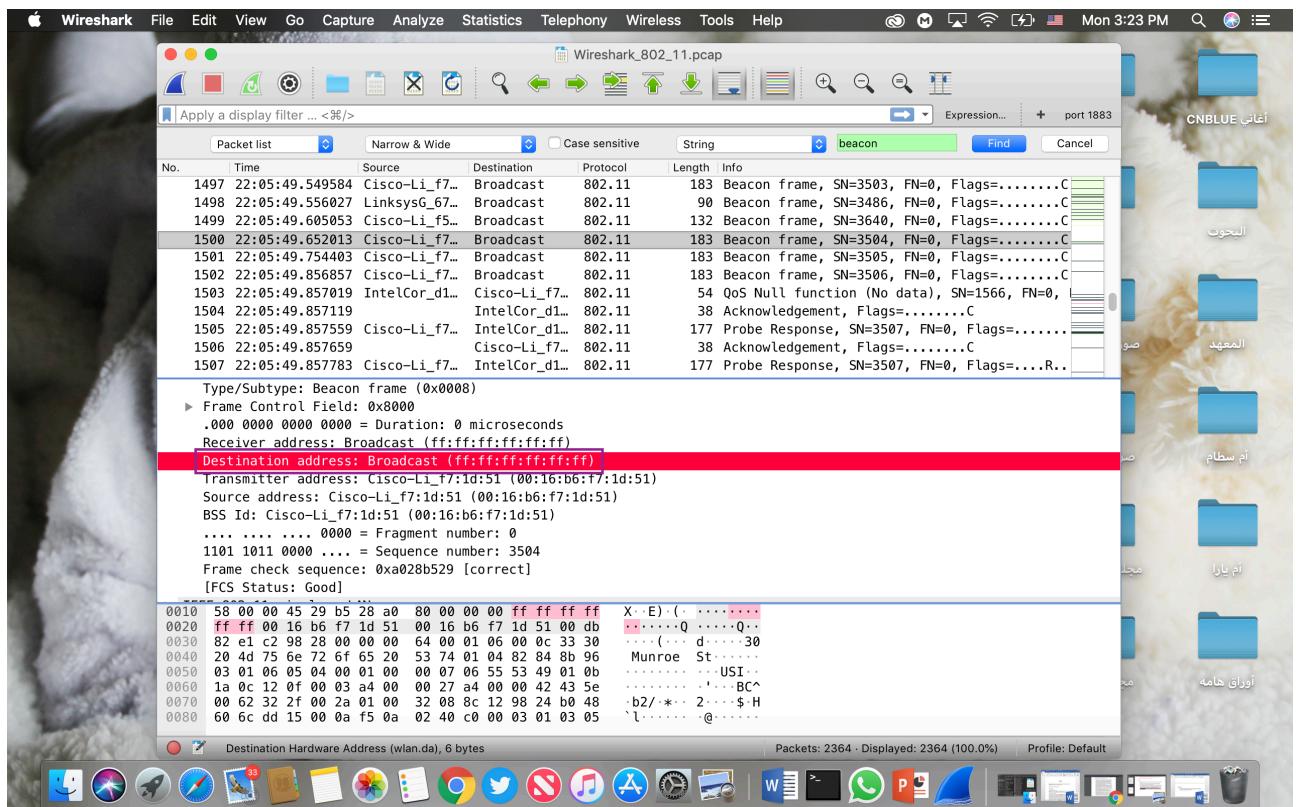
The source MAC address on the 30 Munroe St, beacon frame (00:16:b6:f7:1d:51)



Question #4:

What (in hexadecimal notation) is the destination MAC address on the beacon frame from 30 Munroe St?

the destination MAC address is (ff:ff:ff:ff:ff:ff)



Question #5:

What (in hexadecimal notation) is the MAC BSS id on the beacon frame from *30 Munroe St*?

BSS Id: (00:16:b6:f7:1d:51)

