Lab_7_Wireshark_802.11_v8.0

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

Answer: The two access points that are issuing most of the beacon frames have an SSID of "30 Munroe St" and "linsys SES 24086"

```
> Frame 1737: 99 bytes on wire (792 bits), 99 bytes captured (792 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
> IEEE 802.11 Probe Request, Flags: ......C

▼ IEEE 802.11 Wireless Management

    Tagged parameters (47 bytes)

      Tag: SSID parameter set: linksys SES 24086
     > Tag: Supported Rates 1, 2, 5.5, 11, 6, 9, 12, 18, [Mbit/sec]
     > Tag: Request
     > Tag: Extended Supported Rates 24, 36, 48, 54, [Mbit/sec]
> IEEE 802.11 Beacon frame, Flags: ......C

▼ IEEE 802.11 Wireless Management

   > Fixed parameters (12 bytes)
  Tagged parameters (119 bytes)
     Tag: SSID parameter set: 30 Munroe St
      > Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), [Mbit/sec]
     > Tag: DS Parameter set: Current Channel: 6
     > Tag: Traffic Indication Map (TIM): DTIM 1 of 1 bitmap
     > Tag: Country Information: Country Code US, Environment Indoor
     > Tag: EDCA Parameter Set
```

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 intervals of time between the transmission of the beacon frames the linksys ses 24086 is 0.102400
- The intervals of time between the transmission of the beacon frames the Munroe St is 0.102400 seconds
- Note that the 30 Munroe St AP beacon frames show up in the trace at this regularity, but the beacons from the linsys SES 24086 AP do not.

```
> IEEE 802.11 Beacon frame, Flags: ......C

V IEEE 802.11 Wireless Management

V Fixed parameters (12 bytes)

Timestamp: 6351964057993

Beacon Interval: 0.102400 [Seconds]

> Capabilities Information: 0x0011

V Tagged parameters (68 bytes)

> Tag: SSID parameter set: linksys_SES_24086

> Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), [Mbit/sec]

> Tag: DS Parameter set: Current Channel: 6
```

```
> IEEE 802.11 Beacon frame, Flags: .......C

Y IEEE 802.11 Wireless Management

Y Fixed parameters (12 bytes)

Timestamp: 174319001986

Beacon Interval: 0.102400 [Seconds]

> Capabilities Information: 0x0601

Y Tagged parameters (119 bytes)

> Tag: SSID parameter set: 30 Munroe St

> Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), [Mbit/sec]

> Tag: DS Parameter set: Current Channel: 6
```

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).

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

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

Answer: The destination MAC is for broadcast. The destination MAC is ff:ff:ff:ff:ff.

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

Answer: The MAC BSS id on the beacon frame from the 30 Munroe St is 00:16:b6:f7:1d:51

6. The beacon frames from the 30 Munroe St access point advertise that the access point can support four data rates and eight additional "extended supported rates." What are these rates

Answer:

- The supported rates are 1(B), 2(B), 5.5(B), 11(B) [Mbit/sec]
- The extended supported rate are 6(B), 9(B), 12(B), 18, 24(B), 36, 48, 54 [Mbit/sec]

```
> Frame 1: 183 bytes on wire (1464 bits), 183 bytes captured (1464 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
> IEEE 802.11 Beacon frame, Flags: ......C

▼ IEEE 802.11 Wireless Management

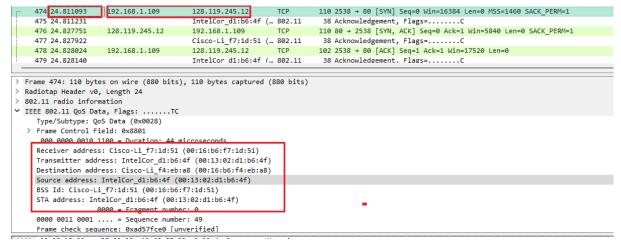
   > Fixed parameters (12 bytes)

▼ Tagged parameters (119 bytes)
     > Tag: SSID parameter set: 30 Munroe St
     > Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), [Mbit/sec]
     > Tag: DS Parameter set: Current Channel: 6
     > Tag: Traffic Indication Map (TIM): DTIM 1 of 1 bitmap
     > Tag: Country Information: Country Code US, Environment Indoor
      > Tag: EDCA Parameter Set
      > Tag: ERP Information
      > Tag: Extended Supported Rates 6(B), 9, 12(B), 18, 24(B), 36, 48, 54, [Mbit/sec]
      > Tag: Vendor Specific: Airgo Networks, Inc.
```

7.Find the 802.11 frame containing the SYN TCP segment for this first TCP session (that downloads alice.txt). What are three MAC address fields in the 802.11 frame? Which MAC address in this frame corresponds to the wireless host (give the hexadecimal representation of the MAC address for the host)? To the access point? To the first-hop router? What is the IP address of the wireless host sending this TCP segment? What is the destination IP address? Does this destination IP address correspond to the host, access point, first-hop router, or some other network-attached device? Explain.

- Those MAC addresses are BSSid, source address and destination.
- The TCP SYN is sent at t = 24.811093 seconds into the trace
- The MAC address for the host sending the TCP SYN is 00:13:02:d1:b6:4f.

- The MAC address for the destination, which the first hop router to which the host is connected, is 00:16:b6:f4:eb:a8.
- The MAC address for the BSS is 00:16:b6:f7:1d:51.
- The MAC address for the destination, which the first hop router to which the host is connected, is 00:16:b6:f4:eb:a8.
- The MAC address for the BSS is 00:16:b6:f7:1d:51.



8.Find the 802.11 frame containing the SYNACK segment for this TCP session. What are three MAC address fields in the 802.11 frame? Which MAC address in this frame corresponds to the host? To the access point? To the first-hop router? Does the sender MAC address in the frame correspond to the IP address of the device that sent the TCP segment encapsulated within this datagram? (Hint: review Figure 6.19 in the text if you are unsure of how to answer this question, or the corresponding part of the previous question. It's particularly important that you understand this).

- The TCP SYNACK is received at t = 24.827751 seconds into the trace.
- The MAC address for the sender of the 802.11 frame containing the TCP SYNACK segment is 00:16:b6:f4:eb:a8, which is the 1st hop router to which the host is attached
- The MAC address for the destination, which the host itself, is 91:2a:b0:49:b6:4f. The MAC address for the BSS is 00:16:b6:f7:1d:51.
- The IP address of the server sending the TCP SYNACK is 128.199.245.12 (gaia.cs.umass.edu)
- The destination address is 192.168.1.109 (our wireless PC).

```
4/5 24.811231
                                           intelcor al:pb:4T (... 802.11
                                                                          38 ACKNOWLEGGEMENT, Flags=.....
476 24.827751
                     128.119.245.12
                                          192.168.1.109
                                                             TCP 110 80 → 2538 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 SACK_PERM=1
                                           Cisco-Li_f7:1d:51 (... 802.11
                                                                          38 Acknowledgement, Flags=.....C
    478 24.828024
                      192.168.1.109
                                          128.119.245.12
                                                                         102 2538 → 80 [ACK] Seq=1 Ack=1 Win=17520 Len=0
                                                                          38 Acknowledgement. Flags=.....C
    479 24.828140
                                          IntelCor d1:b6:4f (... 802.11
> Frame 476: 110 bytes on wire (880 bits), 110 bytes captured (880 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
✓ IEEE 802.11 QoS Data, Flags: ..mP..F.C
     Type/Subtype: QoS Data (0x0028)
    Duration/ID: 11560 (reserved)
     Receiver address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
     Transmitter address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     Destination address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
     Source address: Cisco-Li_f4:eb:a8 (00:16:b6:f4:eb:a8)
     BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     STA address: 91:2a:b0:49:b6:4f (91:2a:b0:49:b6:4f)
          .... 0000 = Fragment number: 0
     1100 0011 0100 .... = Sequence number: 3124
```

9. What two actions are taken (i.e., frames are sent) by the host in the trace just after t=49, to end the association with the 30 Munroe St AP that was initially in place when trace collection began? (Hint: one is an IP-layer action, and one is an 802.11-layer action). Looking at the 802.11 specification, is there another frame that you might have expected to see, but don't see here?

- At t = 49.583615 a DHCP release is sent by the host to the DHCP server (whose IP address is 192.168.1.1) in the network that the host is leaving.
- At t = 49.609617, the host sends a DEAUTHENTICATION frame (Frametype = 00 [Management], subframe type = 12[Deauthentication]).
- One might have expected to see a DISASSOCIATION request to have been sent.

```
1733 49.583615
                    192.168.1.109
                                         192.168.1.1
                                                                       390 DHCP Release - Transaction ID 0xea5a526
                                         IntelCor_d1:b6:4f (... 802.11
                                                                        38 Acknowledgement, Flags=.....C
                     IntelCor_d1:b6:4f
   1735 49.609617
                                         Cisco-Li f7:1d:51
                                                                        54 Deauthentication, SN=1605, FN=0, Flags=.....C
                                                             802.11
   1736 49.609770
                                         IntelCor_d1:b6:4f (... 802.11
                                                                        38 Acknowledgement, Flags=.....C
   1737 49.614478
                     IntelCor d1:b6:4f
                                                                        Broadcast
                                                             802.11
> Frame 1733: 390 bytes on wire (3120 bits), 390 bytes captured (3120 bits)
 Radiotap Header v0, Length 24
  802.11 radio information
✓ IEEE 802.11 QoS Data, Flags: .....TC
  Type/Subtype: QoS Data (0x0028)
> Frame Control Field: 0x8801
     .000 0000 0010 1100 = Duration: 44 microseconds
     Receiver address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     Transmitter address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     Destination address: Cisco-Li f4:eb:a8 (00:16:b6:f4:eb:a8)
    Source address: IntelCor d1:b6:4f (00:13:02:d1:b6:4f)
     BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     STA address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     .... .... 0000 = Fragment number: 0
```

```
1734 49.583771
                                             IntelCor_d1:b6:4f (... 802.11
                                                                              38 Acknowledgement, Flags=.....C
                                                                             54 Deauthentication, SN=1605, FN=0, Flags=......C
38 Acknowledgement, Flags=.....C
                      1735 49.609617
   1736 49.609770
                                             IntelCor d1:b6:4f (... 802.11
                                             Broadcast
                                                                              99 Probe Request, SN=1606, FN=0, Flags=......C. SSID=links
  Frame 1735: 54 bytes on wire (432 bits), 54 bytes captured (432 bits)
  Radiotap Header v0, Length 24
  802.11 radio information

▼ IEEE 802.11 Deauthentication, Flags: .........C

     Type/Subtype: Deauthentication (0x000c)
  > Frame Control Field: 0xc000
     .000 0000 0010 1100 = Duration: 44 microseconds
     Receiver address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     Destination address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     Transmitter address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     Source address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     BSS Id: Cisco-Li f7:1d:51 (00:16:b6:f7:1d:51)
      .... .... 0000 = Fragment number: 0
     0110 0100 0101 .... = Sequence number: 1605
     Frame check sequence: 0x3b4a8b9c [unverified]
     [FCS Status: Unverified]
     00 00 18 00 ee 58 00 00 10 6c 85 09 c0 00 e5 9c
0010 55 00 00 49 9c 8b 4a 3b c0 00 2c 00 00 16 b6 f7 0020 1d 51 00 13 02 d1 b6 4f 00 16 b6 f7 1d 51 50 64
0030 01 00 9c 8b 4a 3b
```

10.Examine the trace file and look for AUTHENICATION frames sent from the host to an AP and vice versa. How many AUTHENTICATION messages are sent from the wireless host to the linksys_ses_24086 AP (which has a MAC address of Cisco_Li_f5:ba:bb) starting at around t=49?

Answer: The first AUTHENTICATION from the host to the AP is at t = 49.638857.

```
Cisco-Li_f5:ba:bb (... 802.11 38 Acknowledgement, Flags=.....
1738 49.615869
1739 49.617713
                                          Cisco-Li_f5:ba:bb (... 802.11
                                                                             38 Acknowledgement, Flags=.....
                IntelCor_d1:b6:4f
                                          Cisco-Li_f5:ba:bb 802.11 58 Authentication, SN=1606, FN=0,
1740 49.638857
                   IntelCor_d1:b6:4f Cisco-Li_f5:ba:bb 802.11 58 Authentication, SN=1606, FN=0,
1741 49.639700
1742 49.640702 IntelCor_d1:b6:4f Cisco-Li_f5:ba:bb 802.11 58 Authentication, SN=1606, FN=0,
                                         Cisco-Li_f5:ba:bb (... 802.11 38 Acknowledgement, Flags=........
Cisco-Li_f5:ba:bb 802.11 58 Authentication, SN=1606, FN=0, Broadcast 802.11 183 Beacon frame, SN=3589, FN=0, F
1743 49.641910
1744 49.642315 IntelCor_d1:b6:4f
                                                                           58 Authentication, SN=1606, FN=0,
1745 49.644710
                   Cisco-Li_f7:1d:51
                                                                           183 Beacon frame, SN=3589, FN=0, F
                                          Cisco-Li f5:ba:bb 802.11
1746 49.645319
                   IntelCor d1:b6:4f
                                                                             58 Authentication. SN=1606. FN=0.
```

11. Does the host want the authentication to require a key or be open?

Answer: The host is requesting that the association be open

```
/ IEEE 802.11 Authentication, Flags: ........

/ IEEE 802.11 Wireless Management

/ Fixed parameters (6 bytes)

Authentication Algorithm: Open System (0)

Authentication SEQ: 0x0001

Status code: Successful (0x0000)
```

12.Do you see a reply AUTHENTICATION from the linksys_ses_24086 AP in the trace?

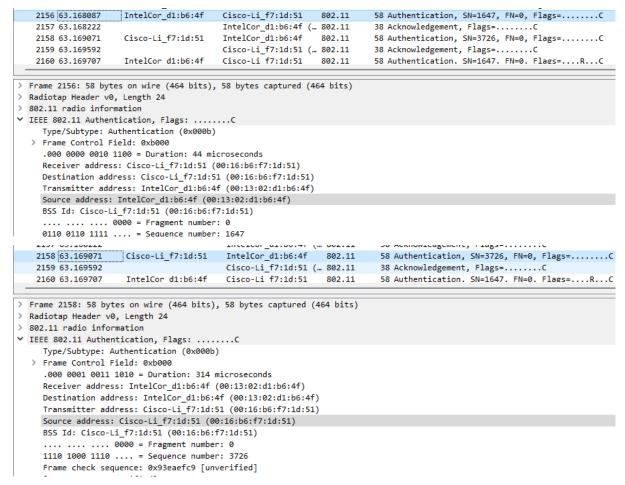
Answer: I can't find any reply from the AP. This is probably because the AP is configured to require a key when associating with that AP, so the AP is likely ignoring (i.e., not responding to) requests for open access.

13.Now let's consider what happens as the host gives up trying to associate with the linksys_ses_24086 AP and now tries to associate with the 30 Munroe St AP. Look for AUTHENICATION frames sent from the host to and AP and vice versa. At what times are there an AUTHENTICATION frame from the host to the 30 Munroe St. AP,

and when is there a reply AUTHENTICATION sent from that AP to the host in reply? (Note that you can use the filter expression "wlan.fc.subtype == 11 and wlan.fc.type == 0 and wlan.addr == IntelCor_d1:b6:4f" to display only the AUTHENTICATION frames in this trace for this wireless host.)

Answer:

- At t = 63.168087 there is a AUTHENTICATION frame sent from 00:13:02:d1:b6:4f (the wireless host) to 00:16:b7:f7:1d:51 (the BSS).
- At t = 63.169071 there is an AUTHENTICATION sent in the reverse direction from the BSS to the wireless host.



14. An ASSOCIATE REQUEST from host to AP, and a corresponding ASSOCIATE RESPONSE frame from AP to host are used for the host to associated with an AP. At what time is there an ASSOCIATE REQUEST from host to the 30 Munroe St AP? When is the corresponding ASSOCIATE REPLY sent? (Note that you can use the filter expression "wlan.fc.subtype < 2 and wlan.fc.type == 0 and wlan.addr == IntelCor_d1:b6:4f" to display only the ASSOCIATE REQUEST and ASSOCIATE RESPONSE frames for this trace.)

- At t = 63.169910 there is a ASSOCIATE REQUEST frame sent from 00:13:02:d1:b6:4f (the wireless host) to 00:16:b7:f7:1d:51 (the BSS).
- At t = 63.192101 there is an ASSOCIATE RESPONSE sent in the reverse direction from the BSS to the wireless host.

```
IntelCor_d1:b6:4f Cisco-Li_f7:1d:51
   2162 63.169910
                                                               802.11 89 Association Request, SN=1648
    2163 63.170008
                                          IntelCor_d1:b6:4f (... 802.11 38 Acknowledgement, Flags=.....
                                          IntelCor_d1:b6:4f 802.11
Cisco-Li_f7:1d:51 (... 802.11
IntelCor_d1:b6:4f 802.11
    2164 63.170692
                     Cisco-Li f7:1d:51
                                                                          58 Authentication, SN=3727, FN=6
    2165 63.171000
                                                                         38 Acknowledgement, Flags=.....
                     Cisco-Li f7:1d:51
                                                                         94 Association Response. SN=3728
   2166 63.192101
                                          IntelCor d1:b6:4f
> Frame 2162: 89 bytes on wire (712 bits), 89 bytes captured (712 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
▼ IEEE 802.11 Association Request, Flags: .......
     Type/Subtype: Association Request (0x0000)
  > Frame Control Field: 0x0000
     .000 0000 0010 1100 = Duration: 44 microseconds
     Receiver address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     Destination address: Cisco-Li f7:1d:51 (00:16:b6:f7:1d:51)
     Transmitter address: IntelCor d1:b6:4f (00:13:02:d1:b6:4f)
     Source address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     .... .... 0000 = Fragment number: 0
     0110 0111 0000 .... = Sequence number: 1648
                  Cisco-Li_f7:1d:51 IntelCor_d1:b6:4f 802.11 94 Association Response, SN=3728,
   2166 63.192101
                                       2167 63.192956
   2168 63.194842
                    0.0.0.0
    2169 63.194971
    2170 63.201481 0.0.0.0
   2171 63.201639 0.0.0.0
    2172 63,201736
                                          IntelCor d1:b6:4f (... 802.11
                                                                         38 Acknowledgement. Flags=.....
> Frame 2166: 94 bytes on wire (752 bits), 94 bytes captured (752 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information

▼ IEEE 802.11 Association Response, Flags: ......C
    Type/Subtype: Association Response (0x0001)
  > Frame Control Field: 0x1000
     .000 0001 0011 1010 = Duration: 314 microseconds
     Receiver address: IntelCor d1:b6:4f (00:13:02:d1:b6:4f)
     Destination address: IntelCor_d1:b6:4f (00:13:02:d1:b6:4f)
     Transmitter address: Cisco-Li f7:1d:51 (00:16:b6:f7:1d:51)
     Source address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
```

15. What transmission rates is the host willing to use? The AP? To answer this question, you will need to look into the parameters fields of the 802.11 wireless LAN management frame.

- In the ASSOCIATION REQUEST frame the supported rates are advertised as: 1, 2, 5.5, 11, 6, 9, 12, 18
- Extended Supported Rates: 24, 32, 48, and 54 Mbps. The same rates are advertised in the ASSOCIATION RESPONSE.

```
IntelCor_d1:b6:4f
                                          Cisco-Li_f7:1d:51 802.11 89 Association Request, :
   2162 63.169910
                                          IntelCor_d1:b6:4f (... 802.11
   2163 63.170008
                                                                          38 Acknowledgement, Flags
                                                                      38 ACKNOWLEGATION CM-27
                     Cicco Li f7.1d.E1
   2164 62 170602
                                          Intolcon disheraf
                                                              902 11
> Frame 2162: 89 bytes on wire (712 bits), 89 bytes captured (712 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
> IEEE 802.11 Association Request, Flags: ......C

▼ IEEE 802.11 Wireless Management

   Fixed parameters (4 bytes)
     > Capabilities Information: 0xce01
        Listen Interval: 0x000a

▼ Tagged parameters (33 bytes)
      > Tag: SSTD parameter set: 30 Munroe St
        Tag: Supported Rates 1(B), 2(B), 5.5(B), 11(B), 6(B), 9, 12(B), 18, [Mbit/sec]
       Tag: OoS Canability
      > Tag: Extended Supported Rates 24(B), 36, 48, 54, [Mbit/sec]
```

16. What are the sender, receiver and BSS ID MAC addresses in these frames? What is the purpose of these two types of frames? (To answer this last question, you'll need to dig into the online references cited earlier in this lab).

- At t = 2.297613 there is a PROBE REQUEST sent with source 00:12:f0:1f:57:13, destination: ff:ff:ff:ff:ff; and a BSSID of ff:ff:ff:ff:ff.
- At t = 2.300697 there is a PROBE RESPONSE sent with source: 00:16:b6:f7:1d:51, destination and a BSSID of 00:16:b6:f7:1d:51.

```
50 2.297613
                      IntelCor_1f:57:13
                                           Broadcast
                                                                802.11
                                                                           79
      51 2.300697
                      Cisco-Li f7:1d:51
                                           IntelCor 1f:57:13
                                                                          177
                                                                802.11
                      Cisco-Li f7:1d:51
                                           IntelCor 1f:57:13
     52 2.302191
                                                                802.11
                                                                          177
                      cial is Entained
                                           T-4-16-- 4£.57.45
      E2 2 2040C2
> Frame 50: 79 bytes on wire (632 bits), 79 bytes captured (632 bits)
> Radiotap Header v0, Length 24
> 802.11 radio information
➤ IEEE 802.11 Probe Request, Flags: ......C
     Type/Subtype: Probe Request (0x0004)
  > Frame Control Field: 0x4000
     .000 0000 0000 0000 = Duration: 0 microseconds
     Receiver address: Broadcast (ff:ff:ff:ff:ff)
     Destination address: Broadcast (ff:ff:ff:ff:ff)
     Transmitter address: IntelCor 1f:57:13 (00:12:f0:1f:57:13)
     Source address: IntelCor_1f:57:13 (00:12:f0:1f:57:13)
     BSS Id: Broadcast (ff:ff:ff:ff:ff)
     .... .... 0000 = Fragment number: 0
     0010 0100 0000 .... = Sequence number: 576
     Frame check sequence: 0xa373c5ff [unverified]
     [FCS Status: Unverified]
```

```
51 2.300697
                  Cisco-Li f7:1d:51 IntelCor 1f:57:13 802.11 177
     52 2.302191
                    177
                    C1--- 12 E7.43.F4
                                        T-1-10-- 15.07.17
     E2 2 2040C2
                                                           000 11
                                                                     477
> Radiotap Header v0, Length 24
> 802.11 radio information
▼ IEEE 802.11 Probe Response, Flags: ......C
    Type/Subtype: Probe Response (0x0005)
  > Frame Control Field: 0x5000
     .000 0001 0011 1010 = Duration: 314 microseconds
     Receiver address: IntelCor 1f:57:13 (00:12:f0:1f:57:13)
    Destination address: IntelCor_1f:57:13 (00:12:f0:1f:57:13)
    Transmitter address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
    Source address: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
    BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)
     .... .... 0000 = Fragment number: 0
    1011 0011 1110 .... = Sequence number: 2878
    Frame check sequence: 0x6ed851bb [unverified]
     [FCS Status: Unverified]
```

V TEER 000 44 18-1--- M------