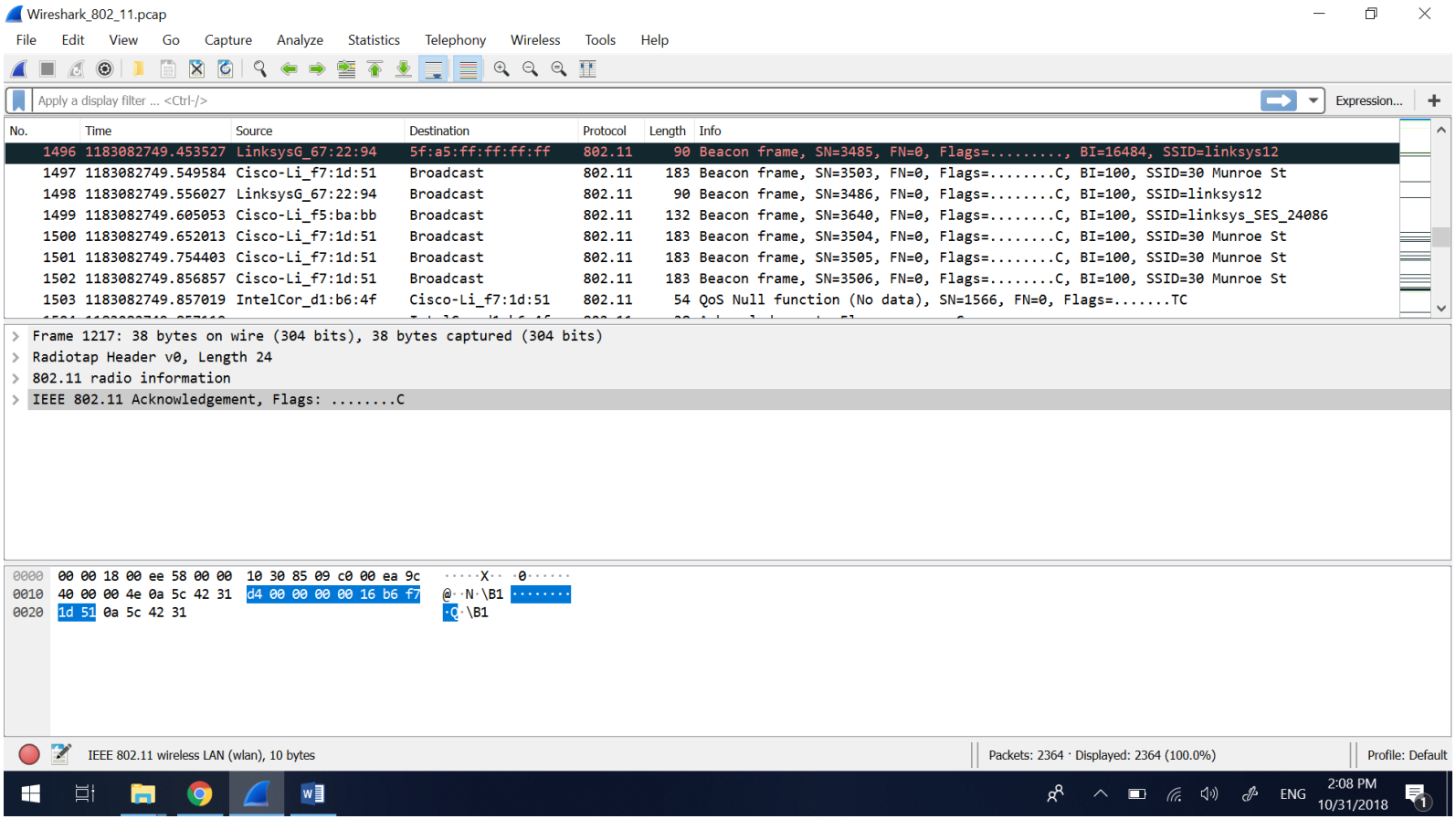
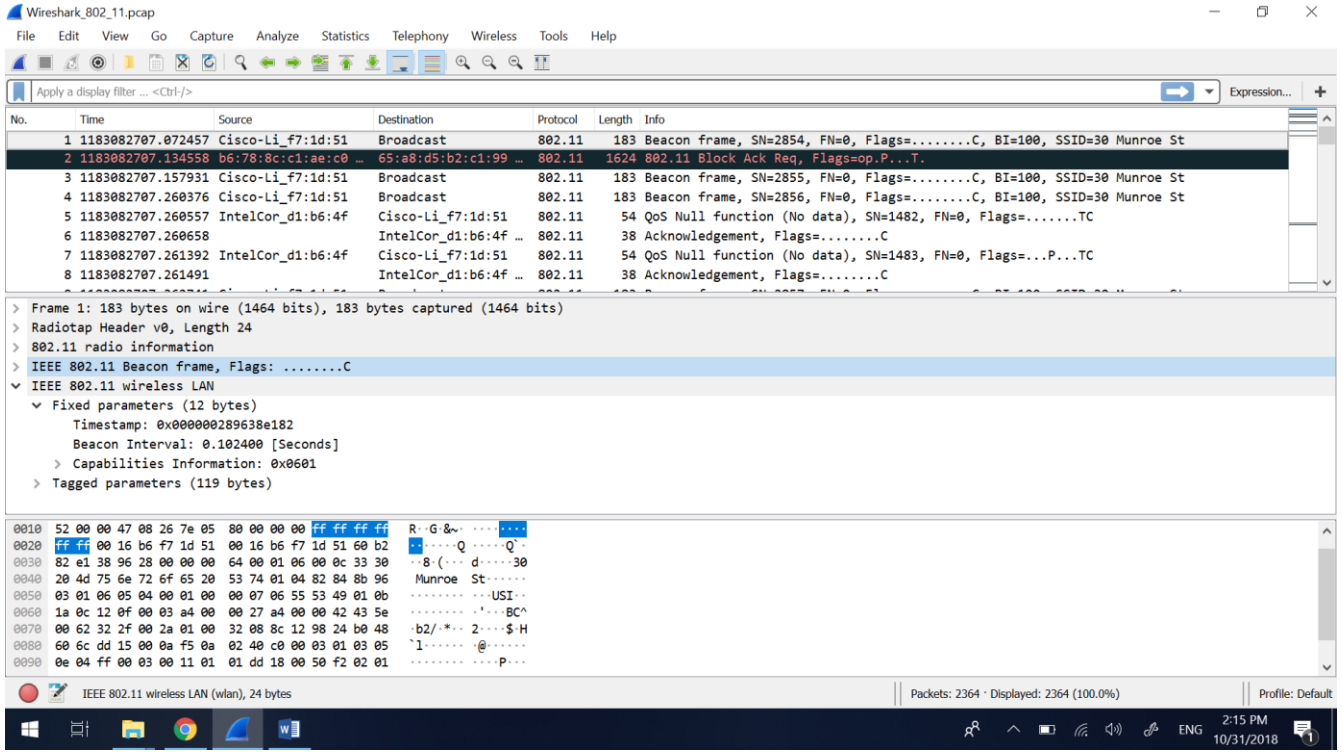
1. What are the SSIDs of the two access points that are issuing most of the beacon frames in this trace?
   Answer: The two most common SSIDs that can be identified in this trace are: 30 Munroe St (more) and linksys_SES_24086



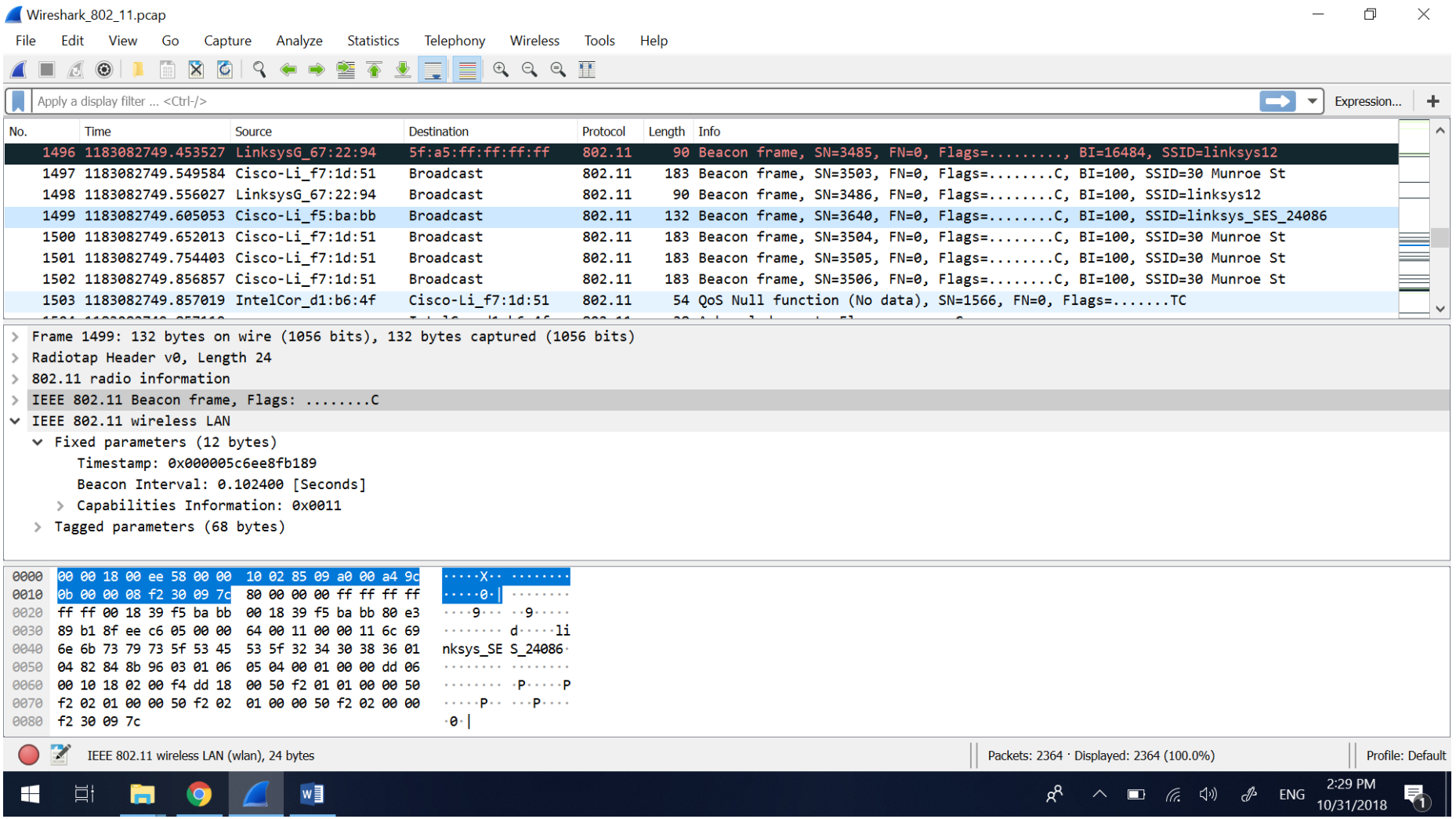
2. What are the intervals of time between the transmissions of the beacon frames the linksys_ses_24086 access point? From the 30 Munroe St. access point?

Answer:

1. 30 Munroe St – 0.102400 seconds

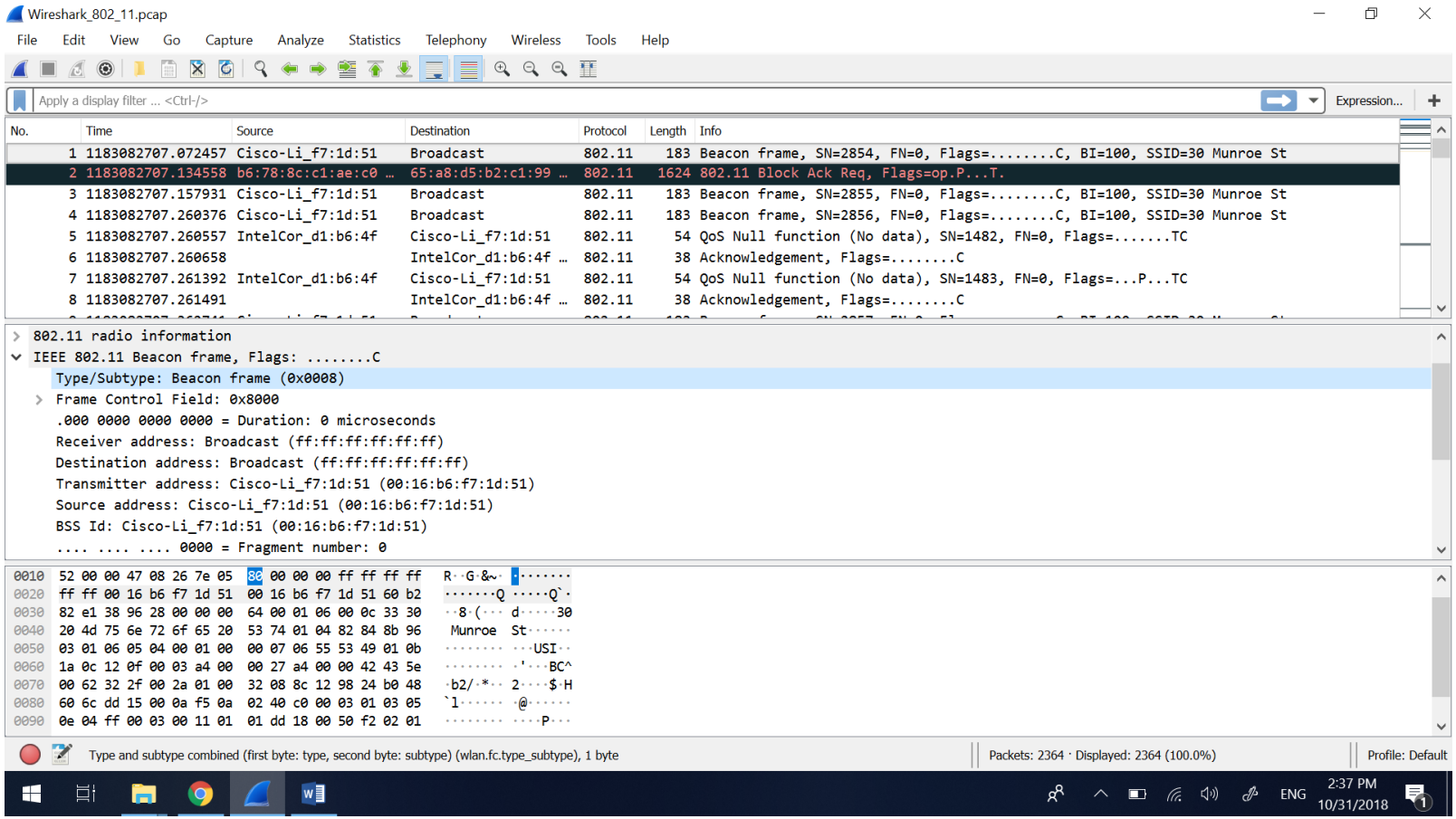


2. For linksys_ses_24086: 0.102400 seconds

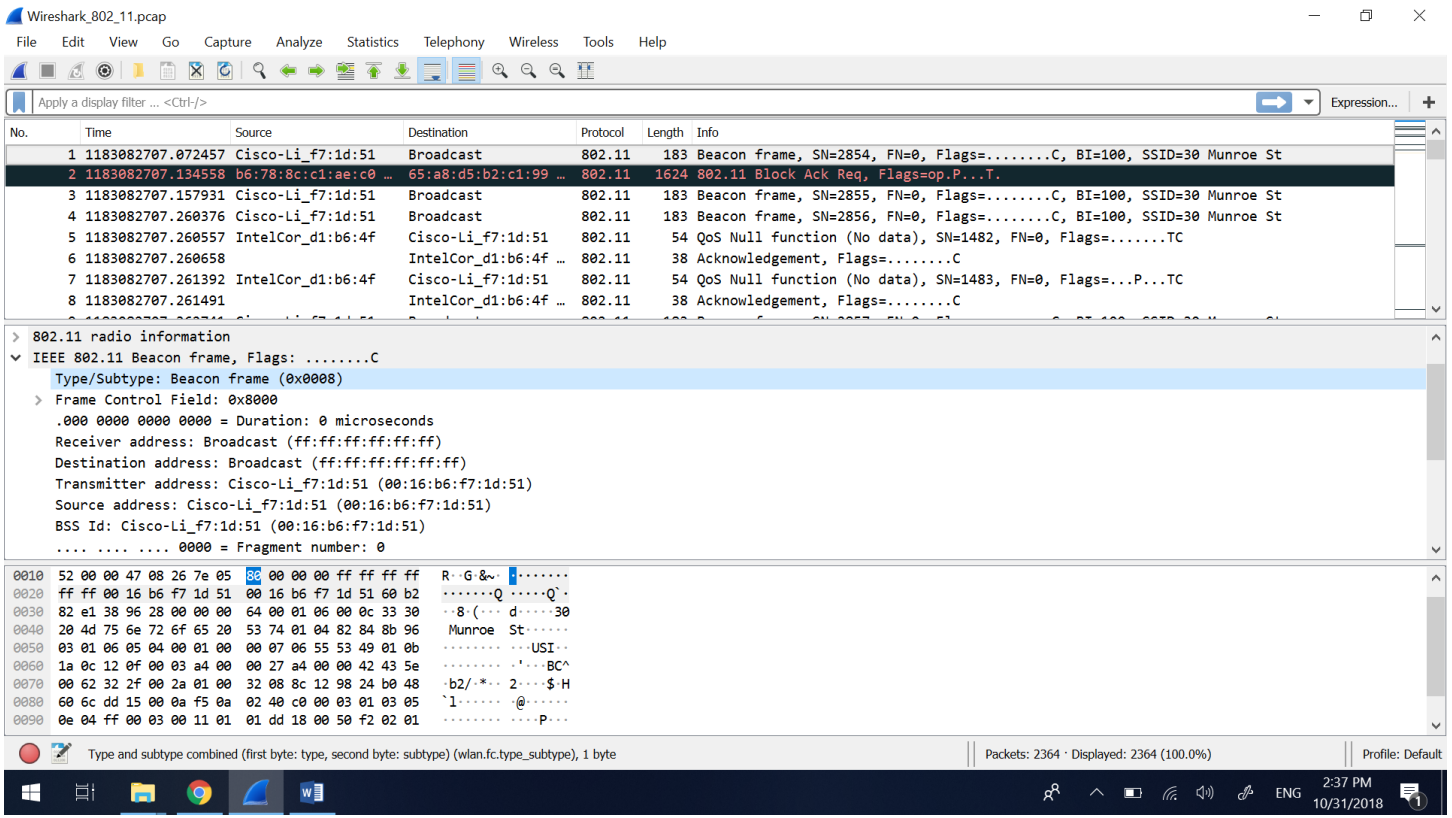


3. What (in hexadecimal notation) is the source MAC address on the beacon frame from 30 Munroe St? Recall from Figure 7.13 in the text that the source, destination, and BSS are three addresses used in an 802.11 frame. For a detailed discussion of the 802.11 frame structure, see section 7 in the IEEE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

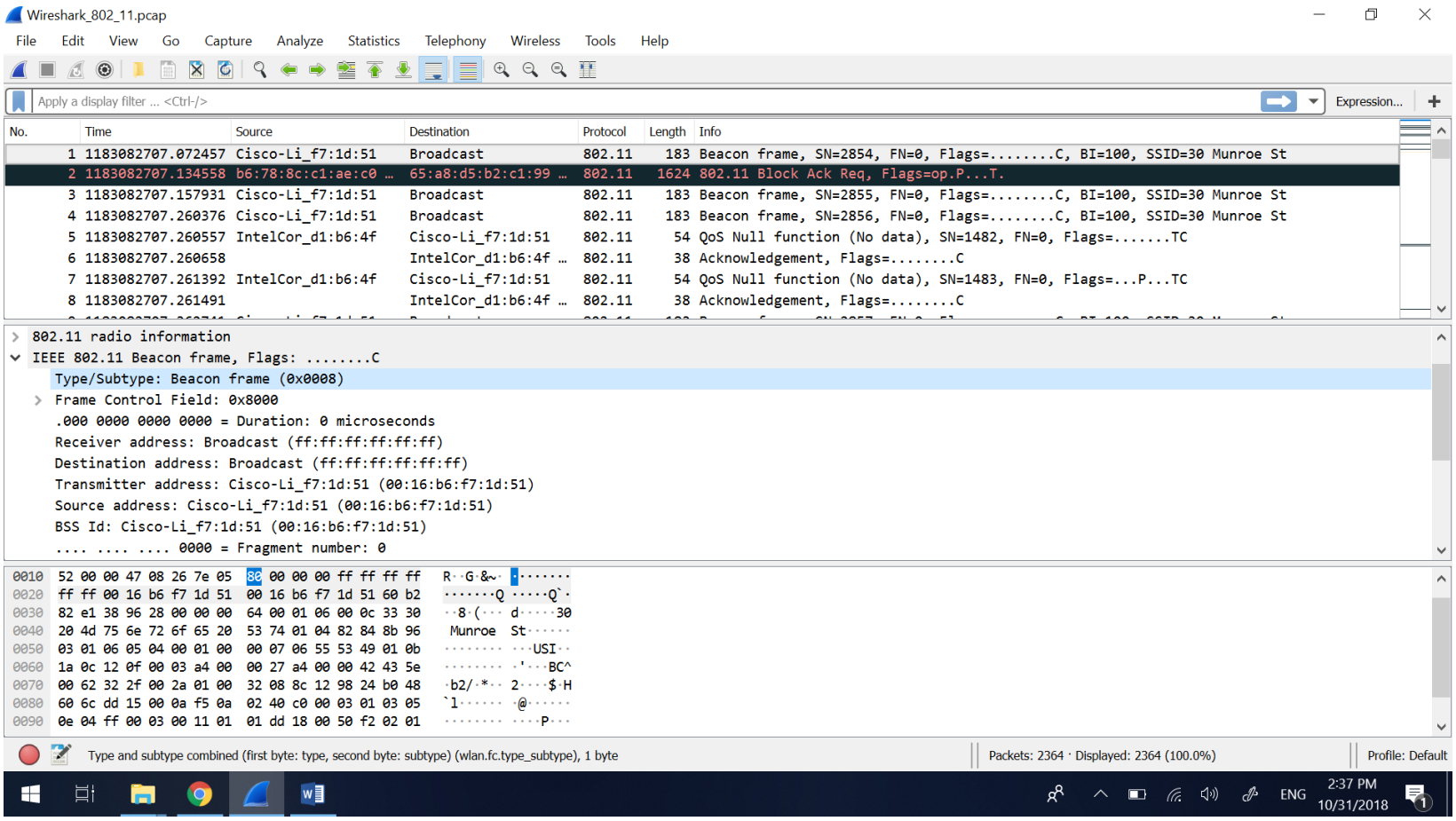
Answer: Source Mac address for beacon frame from 30 Munroe St is **00:16:b6:f7:1d:51**



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



5. What (in hexadecimal notation) is the MAC BSS id on the beacon frame from 30 Munroe St?
   Answer: BSS Id: Cisco-Li_f7:1d:51 (00:16:b6:f7:1d:51)


Wireshark_802_11.pcap
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
Expression...
No. Time Source Destination Protocol Length Info
1 1183082707.072457 Cisco-Li_f7:1d:51 Broadcast 802.11 183 Beacon frame, SN=2854, FN=0, Flags=........C, BI=100, SSID=30 Munroe St
2 1183082707.134558 b6:78:8c:c1:ae:c0 … 65:a8:d5:b2:c1:99 … 802.11 1624 802.11 Block Ack Req, Flags=op.P...T.
3 1183082707.157931 Cisco-Li_f7:1d:51 Broadcast 802.11 183 Beacon frame, SN=2855, FN=0, Flags=........C, BI=100, SSID=30 Munroe St
4 1183082707.260376 Cisco-Li_f7:1d:51 Broadcast 802.11 183 Beacon frame, SN=2856, FN=0, Flags=........C, BI=100, SSID=30 Munroe St
5 1183082707.260557 IntelCor_d1:b6:4f Cisco-Li_f7:1d:51 802.11 54 QoS Null function (No data), SN=1482, FN=0, Flags=.......TC
6 1183082707.260658 IntelCor_d1:b6:4f … 802.11 38 Acknowledgement, Flags=........C
7 1183082707.261392 IntelCor_d1:b6:4f Cisco-Li_f7:1d:51 802.11 54 QoS Null function (No data), SN=1483, FN=0, Flags=...P...TC
8 1183082707.261491 IntelCor_d1:b6:4f … 802.11 38 Acknowledgement, Flags=........C
802.11 radio information
IEEE 802.11 Beacon frame, Flags: C
Type/Subtype: Beacon frame (0x0008)
Frame Control Field: 0x8000
.000 0000 0000 0000 = Duration: 0 microseconds
Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
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
0010 52 00 00 47 08 26 7e 05 80 00 00 00 ff ff ff ff
0020 ff ff 00 16 b6 f7 1d 51 00 16 b6 f7 1d 51 60 b2
0030 82 e1 38 96 28 00 00 00 64 00 01 06 00 0c 33 30
0040 20 4d 75 6e 72 6f 65 20 53 74 01 04 82 84 8b 96
0050 03 01 06 05 04 00 01 00 00 07 06 55 53 49 01 0b
0060 1a 0c 12 0f 00 03 a4 00 00 27 a4 00 00 42 43 5e
0070 00 62 32 2f 00 2a 01 00 32 08 8c 12 98 24 b0 48
0080 60 6c dd 15 00 0a f5 0a 02 40 c0 00 03 01 03 05
0090 0e 04 ff 00 03 00 11 01 01 dd 18 00 50 f2 02 01
Type and subtype combined (first byte: type, second byte: subtype) (wlan.fc.type_subtype), 1 byte
Packets: 2364 · Displayed: 2364 (100.0%)
Profile: Default
ENG
2:37 PM
10/31/2018