```
No.    Time            Source              Destination          Protocol Length Info
     1 0.000000000    CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216      Beacon
  Frame 1: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
     Interface id: 0 (enx00e04c6807aa)
         Interface name: enx00e04c6807aa
     Encapsulation type: Ethernet (1)
     Arrival Time: Jan  6, 2022 00:50:43.465110529 W. Europe Standard Time
     [Time shift for this packet: 0.000000000 seconds]
     Epoch Time: 1641426643.465110529 seconds
     [Time delta from previous captured frame: 0.000000000 seconds]
     [Time delta from previous displayed frame: 0.000000000 seconds]
     [Time since reference or first frame: 0.000000000 seconds]
     Frame Number: 1
     Frame Length: 216 bytes (1728 bits)
     Capture Length: 216 bytes (1728 bits)
     [Frame is marked: False]
     [Frame is ignored: False]
     [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
     [Coloring Rule Name: UDP]
     [Coloring Rule String: udp]
  Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
     Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
         Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
         .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
         .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
     Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
         Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
         .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
         .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
     Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
     0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
     Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
         0000 00.. = Differentiated Services Codepoint: Default (0)
         .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
     Total Length: 202
     Identification: 0xf79b (63387)
     Flags: 0x4000, Don't fragment
         0... .... .... .... = Reserved bit: Not set
         .1.. .... .... .... = Don't fragment: Set
         ..0. .... .... .... = More fragments: Not set
         ...0 0000 0000 0000 = Fragment offset: 0
     Time to live: 64
     Protocol: UDP (17)
     Header checksum: 0xad21 [validation disabled]
     [Header checksum status: Unverified]
     Source: 192.168.10.11
     Destination: 192.168.10.10
  User Datagram Protocol, Src Port: 53588, Dst Port: 37008
     Source Port: 53588
     Destination Port: 37008
     Length: 182
     Checksum: 0xde4d [unverified]
     [Checksum Status: Unverified]
     [Stream index: 0]
     [Timestamps]
         [Time since first frame: 0.000000000 seconds]
         [Time since previous frame: 0.000000000 seconds]
  TZSP: IEEE 802.11 Good
     Version: 1
     Type: Received packet (0)
     Encapsulation: IEEE 802.11 (18)
     Cohda MKx Rx id header
         Option Tag: Cohda MKx Rx id header (240)
         Option Length: 1
     Cohda MKx ID: 0
     Cohda MKx Rx packet counter
         Option Tag: Cohda MKx Rx packet counter (241)
         Option Length: 4
     Cohda MKx Counter: 1
     Signal
         Option Tag: Signal (10)
         Option Length: 1
         Signal: -47
     Signal
         Option Tag: Signal (10)
         Option Length: 1
         Signal: -48
     Rate
         Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e548003800020082004a130000…
            MKxIFMsg: 020082004a13000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=4938, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 4938
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff008062faffff8f05026cded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-32768, FreqOffset=-1438, TSF=0x0005d4de6c02058f, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -32768
                FreqOffset: -1438
                TSF: 0x0005d4de6c02058f
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1000 .... = Sequence number: 200
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575764.727s (1575764727)
        Latitude: 48.7871591 (48°47'13.77"N) (487871591)
        Longitude: 9.2112273 (09°12'40.42"E) (92112273)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.     Time           Source              Destination          Protocol Length Info
      2 3.500324674    CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216     Beacon
Frame 2: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:50:46.965435203 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426646.965435203 seconds
    [Time delta from previous captured frame: 3.500324674 seconds]
    [Time delta from previous displayed frame: 3.500324674 seconds]
    [Time since reference or first frame: 3.500324674 seconds]
    Frame Number: 2
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xf85c (63580)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xac60 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x9660 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 3.500324674 seconds]
        [Time since previous frame: 3.500324674 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 2
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002008200911130000…
            MKxIFMsg: 020082009113000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5009, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5009
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3aff83fafffffb66f376cded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1405, TSF=0x0005d4de6c376fb6, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1405
                TSF: 0x0005d4de6c376fb6
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1001 .... = Sequence number: 201
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
    Lifetime 60000 ms
        1111 00.. = Multiplier: 60
        .... ..01 = Base: 1 s (1)
    Remaining Hop Limit: 1
Common Header
    0000 .... = Next Header: Any (0)
    .... 0000 = Reserved: 0
    0001 .... = Header Type: Beacon (1)
    .... 0000 = Header Subtype: Unspecified (0)
    Traffic Class: 0x02
        0... .... = Store-Carry-Forward: 0
        .0.. .... = Channel Offload: 0
        ..00 0010 = DP ID (DCC Profile Id): 2
    Flags: 0x80
        1... .... = Mobile Flag: Mobile (1)
        .000 0000 = Reserved: 0x00
    Payload Length: 0
    Maximum Hop Limit: 1
    Reserved: 0
Source Position Vector
    GN Address: 0x140004e548201d4a
        0... .... .... .... = Assignment: Initial (0)
        .001 01.. .... .... = Station Type: Passenger Car (5)
        .... ..00 0000 0000 = Reserved: 0
        Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Timestamp: 1575767.727s (1575767727)
    Latitude: 48.7871581 (48°47'13.77"N) (487871581)
    Longitude: 9.2112243 (09°12'40.41"E) (92112243)
    1... .... .... .... = PAI: 1
    .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
    Heading: 0.0° (0)
```

```
No.     Time            Source              Destination          Protocol Length Info
      3 6.820249713    CohdaWir_20:1d:4a    Broadcast            GeoNetworking 216    Beacon
Frame 3: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:50:50.285360242 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426650.285360242 seconds
    [Time delta from previous captured frame: 3.319925039 seconds]
    [Time delta from previous displayed frame: 3.319925039 seconds]
    [Time since reference or first frame: 6.820249713 seconds]
    Frame Number: 3
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xf87a (63610)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xac42 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x84d8 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 6.820249713 seconds]
        [Time since previous frame: 3.319925039 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 3
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002008200d4130000…
        MKxIFMsg: 02008200d413000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5076, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5076
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3affa5fafffe61a6a6cded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1371, TSF=0x0005d4de6c6a1ae6, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1371
            TSF: 0x0005d4de6c6a1ae6
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1010 .... = Sequence number: 202
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
    Lifetime 60000 ms
        1111 00.. = Multiplier: 60
        .... ..01 = Base: 1 s (1)
    Remaining Hop Limit: 1
Common Header
    0000 .... = Next Header: Any (0)
    .... 0000 = Reserved: 0
    0001 .... = Header Type: Beacon (1)
    .... 0000 = Header Subtype: Unspecified (0)
    Traffic Class: 0x02
        0... .... = Store-Carry-Forward: 0
        .0.. .... = Channel Offload: 0
        ..00 0010 = DP ID (DCC Profile Id): 2
    Flags: 0x80
        1... .... = Mobile Flag: Mobile (1)
        .000 0000 = Reserved: 0x00
    Payload Length: 0
    Maximum Hop Limit: 1
    Reserved: 0
Source Position Vector
    GN Address: 0x140004e548201d4a
        0... .... .... .... = Assignment: Initial (0)
        .001 01.. .... .... = Station Type: Passenger Car (5)
        .... ..00 0000 0000 = Reserved: 0
        Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Timestamp: 1575771.727s (1575771727)
    Latitude: 48.7871575 (48°47'13.77"N) (487871575)
    Longitude: 9.2112195 (09°12'40.39"E) (92112195)
    1... .... .... .... = PAI: 1
    .000 0000 0001 0110 = Speed: 0x0016 (0.22 m/s) (0.79 km/h) (22)
    Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
     4 10.020299748    CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
  Frame 4: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
     Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
     Encapsulation type: Ethernet (1)
     Arrival Time: Jan  6, 2022 00:50:53.485410277 W. Europe Standard Time
     [Time shift for this packet: 0.000000000 seconds]
     Epoch Time: 1641426653.485410277 seconds
     [Time delta from previous captured frame: 3.200050035 seconds]
     [Time delta from previous displayed frame: 3.200050035 seconds]
     [Time since reference or first frame: 10.020299748 seconds]
     Frame Number: 4
     Frame Length: 216 bytes (1728 bits)
     Capture Length: 216 bytes (1728 bits)
     [Frame is marked: False]
     [Frame is ignored: False]
     [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
     [Coloring Rule Name: UDP]
     [Coloring Rule String: udp]
  Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
     Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
     Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
     Type: IPv4 (0x0800)
  Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
     0100 .... = Version: 4
     .... 0101 = Header Length: 20 bytes (5)
     Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
     Total Length: 202
     Identification: 0xf9b3 (63923)
     Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
     Time to live: 64
     Protocol: UDP (17)
     Header checksum: 0xab09 [validation disabled]
     [Header checksum status: Unverified]
     Source: 192.168.10.11
     Destination: 192.168.10.10
  User Datagram Protocol, Src Port: 53588, Dst Port: 37008
     Source Port: 53588
     Destination Port: 37008
     Length: 182
     Checksum: 0xad91 [unverified]
     [Checksum Status: Unverified]
     [Stream index: 0]
     [Timestamps]
        [Time since first frame: 10.020299748 seconds]
        [Time since previous frame: 3.200050035 seconds]
  TZSP: IEEE 802.11 Good
     Version: 1
     Type: Received packet (0)
     Encapsulation: IEEE 802.11 (18)
     Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
     Cohda MKx ID: 0
     Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
     Cohda MKx Counter: 4
     Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
     Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
     Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e548003800020082001514000…
        MKxIFMsg: 0200820015140000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5141, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5141
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a4ffa0ff3aff3affd0faffffceec9a6cded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1328, TSF=0x0005d4de6c9aecce, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -92
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -198
            FreqOffset: -1328
            TSF: 0x0005d4de6c9aecce
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1011 .... = Sequence number: 203
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575774.727s (1575774727)
        Latitude: 48.7871571 (48°47'13.77"N) (487871571)
        Longitude: 9.2112166 (09°12'40.38"E) (92112166)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1110 = Speed: 0x000e (0.14 m/s) (0.50 km/h) (14)
        Heading: 0.0° (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
     5 13.460322562   CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216    Beacon
Frame 5: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:50:56.925433091 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426656.925433091 seconds
    [Time delta from previous captured frame: 3.440022814 seconds]
    [Time delta from previous displayed frame: 3.440022814 seconds]
    [Time since reference or first frame: 13.460322562 seconds]
    Frame Number: 5
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfaa6 (64166)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xaa16 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xd3bd [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 13.460322562 seconds]
        [Time since previous frame: 3.440022814 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 5
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e548003800020082005b140000…
            MKxIFMsg: 020082005b14000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5211, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5211
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ffb3faffffff870cf6cded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1357, TSF=0x0005d4de6ccf70f8, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1357
                TSF: 0x0005d4de6ccf70f8
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1100 .... = Sequence number: 204
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575777.727s (1575777727)
        Latitude: 48.7871566 (48°47'13.76"N) (487871566)
        Longitude: 9.2112100 (09°12'40.36"E) (92112100)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
      6 16.540424983    CohdaWir_20:1d:4a    Broadcast             GeoNetworking 216    Beacon
Frame 6: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:00.005535512 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426660.005535512 seconds
    [Time delta from previous captured frame: 3.080102421 seconds]
    [Time delta from previous displayed frame: 3.080102421 seconds]
    [Time since reference or first frame: 16.540424983 seconds]
    Frame Number: 6
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfb70 (64368)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa94c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x2fbb [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 16.540424983 seconds]
        [Time since previous frame: 3.080102421 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 6
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000004e54800380002008200991400000…
            MKxIFMsg: 020082009914000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5273, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5273
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff34ff40fafff256afe6cded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1472, TSF=0x0005d4de6cfe6a25, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -204
                FreqOffset: -1472
                TSF: 0x0005d4de6cfe6a25
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1101 .... = Sequence number: 205
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575780.727s (1575780727)
        Latitude: 48.7871556 (48°47'13.76"N) (487871556)
        Longitude: 9.2112067 (09°12'40.34"E) (92112067)
        1... .... .... .... = PAI: 1
        .000 0000 0001 0010 = Speed: 0x0012 (0.18 m/s) (0.65 km/h) (18)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
      7 20.090347000    CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
Frame 7: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:03.555457529 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426663.555457529 seconds
    [Time delta from previous captured frame: 3.549922017 seconds]
    [Time delta from previous displayed frame: 3.549922017 seconds]
    [Time since reference or first frame: 20.090347000 seconds]
    Frame Number: 7
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfb8c (64396)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa930 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xf03e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 20.090347000 seconds]
        [Time since previous frame: 3.549922017 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 7
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200e1140000…
        MKxIFMsg: 02008200e114000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5345, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5345
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff6ff9ffffca8f346dded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1681, TSF=0x0005d4de6d348fca, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1681
            TSF: 0x0005d4de6d348fca
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1110 .... = Sequence number: 206
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575784.727s (1575784727)
        Latitude: 48.7871545 (48°47'13.76"N) (487871545)
        Longitude: 9.2111962 (09°12'40.31"E) (92111962)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.      Time           Source              Destination          Protocol Length Info
      8 23.670277026    CohdaWir_20:1d:4a    Broadcast            GeoNetworking 216    Beacon
Frame 8: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:07.135387555 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426667.135387555 seconds
    [Time delta from previous captured frame: 3.579930026 seconds]
    [Time delta from previous displayed frame: 3.579930026 seconds]
    [Time since reference or first frame: 23.670277026 seconds]
    Frame Number: 8
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfbf7 (64503)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa8c5 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x27aa [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 23.670277026 seconds]
        [Time since previous frame: 3.579930026 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 8
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e548003800020082002a150000…
        MKxIFMsg: 020082002a15000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5418, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5418
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffd0fafffffac296b6dded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1328, TSF=0x0005d4de6d6b29ac, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1328
            TSF: 0x0005d4de6d6b29ac
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1100 1111 .... = Sequence number: 207
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575788.727s (1575788727)
        Latitude: 48.7871542 (48°47'13.76"N) (487871542)
        Longitude: 9.2111851 (09°12'40.27"E) (92111851)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
      9 27.320227986   CohdaWir_20:1d:4a     Broadcast             GeoNetworking 216    Beacon
Frame 9: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:10.785338515 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426670.785338515 seconds
    [Time delta from previous captured frame: 3.649950960 seconds]
    [Time delta from previous displayed frame: 3.649950960 seconds]
    [Time since reference or first frame: 27.320227986 seconds]
    Frame Number: 9
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfcf9 (64761)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa7c3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xaef6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 27.320227986 seconds]
        [Time since previous frame: 3.649950960 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 9
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200741500000…
        MKxIFMsg: 02008200741500000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5492, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5492
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffd9fafff68f9a26dded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1319, TSF=0x0005d4de6da2f968, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1319
            TSF: 0x0005d4de6da2f968
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0000 .... = Sequence number: 208
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575791.727s (1575791727)
        Latitude: 48.7871546 (48°47'13.76"N) (487871546)
        Longitude: 9.2111809 (09°12'40.25"E) (92111809)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
    10 30.440391045   CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216     Beacon
Frame 10: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:13.905501574 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426673.905501574 seconds
    [Time delta from previous captured frame: 3.120163059 seconds]
    [Time delta from previous displayed frame: 3.120163059 seconds]
    [Time since reference or first frame: 30.440391045 seconds]
    Frame Number: 10
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfe28 (65064)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa694 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x8180 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 30.440391045 seconds]
        [Time since previous frame: 3.120163059 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 10
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e54800380002008200b3150000…
        MKxIFMsg: 02008200b315000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5555, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5555
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffcdfaffff6b83d26dded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1331, TSF=0x0005d4de6dd2836b, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1331
            TSF: 0x0005d4de6dd2836b
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0001 .... = Sequence number: 209
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575794.727s (1575794727)
        Latitude: 48.7871551 (48°47'13.76"N) (487871551)
        Longitude: 9.2111789 (09°12'40.24"E) (92111789)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.      Time            Source              Destination            Protocol Length Info
    11 33.550275589    CohdaWir_20:1d:4a    Broadcast              GeoNetworking 216    Beacon
Frame 11: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:17.015386118 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426677.015386118 seconds
    [Time delta from previous captured frame: 3.109884544 seconds]
    [Time delta from previous displayed frame: 3.109884544 seconds]
    [Time since reference or first frame: 33.550275589 seconds]
    Frame Number: 11
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xfece (65230)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa5ee [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x5ca6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 33.550275589 seconds]
        [Time since previous frame: 3.109884544 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 11
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002008200f3150000…
            MKxIFMsg: 02008200f315000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5619, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5619
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff2cfbffffcfeb016eded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1236, TSF=0x0005d4de6e01ebcf, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1236
                TSF: 0x0005d4de6e01ebcf
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0010 .... = Sequence number: 210
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575797.727s (1575797727)
        Latitude: 48.7871568 (48°47'13.76"N) (487871568)
        Longitude: 9.2111798 (09°12'40.25"E) (92111798)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1110 = Speed: 0x000e (0.14 m/s) (0.50 km/h) (14)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
     12 37.200344473    CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
Frame 12: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:20.665455002 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426680.665455002 seconds
    [Time delta from previous captured frame: 3.650068884 seconds]
    [Time delta from previous displayed frame: 3.650068884 seconds]
    [Time since reference or first frame: 37.200344473 seconds]
    Frame Number: 12
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xff46 (65350)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa576 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x5126 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 37.200344473 seconds]
        [Time since previous frame: 3.650068884 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 12
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e548003800020082003d160000…
            MKxIFMsg: 020082003d16000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5693, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5693
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff36fbffff8aaa396eded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1226, TSF=0x0005d4de6e39aa8a, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1226
                TSF: 0x0005d4de6e39aa8a
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0011 .... = Sequence number: 211
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
    Lifetime 60000 ms
        1111 00.. = Multiplier: 60
        .... ..01 = Base: 1 s (1)
    Remaining Hop Limit: 1
Common Header
    0000 .... = Next Header: Any (0)
    .... 0000 = Reserved: 0
    0001 .... = Header Type: Beacon (1)
    .... 0000 = Header Subtype: Unspecified (0)
    Traffic Class: 0x02
        0... .... = Store-Carry-Forward: 0
        .0.. .... = Channel Offload: 0
        ..00 0010 = DP ID (DCC Profile Id): 2
    Flags: 0x80
        1... .... = Mobile Flag: Mobile (1)
        .000 0000 = Reserved: 0x00
    Payload Length: 0
    Maximum Hop Limit: 1
    Reserved: 0
Source Position Vector
    GN Address: 0x140004e548201d4a
        0... .... .... .... = Assignment: Initial (0)
        .001 01.. .... .... = Station Type: Passenger Car (5)
        .... ..00 0000 0000 = Reserved: 0
        Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Timestamp: 1575801.727s (1575801727)
    Latitude: 48.7871601 (48°47'13.78"N) (487871601)
    Longitude: 9.2111885 (09°12'40.28"E) (92111885)
    1... .... .... .... = PAI: 1
    .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
    Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
     13 40.890311632    CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
Frame 13: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:24.355422161 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426684.355422161 seconds
    [Time delta from previous captured frame: 3.689967159 seconds]
    [Time delta from previous displayed frame: 3.689967159 seconds]
    [Time since reference or first frame: 40.890311632 seconds]
    Frame Number: 13
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xff6f (65391)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa54d [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x35ca [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 40.890311632 seconds]
        [Time since previous frame: 3.689967159 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 13
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200871600000…
            MKxIFMsg: 02008200871600000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5767, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5767
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ffe7faffff99e6716eded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1305, TSF=0x0005d4de6e71e699, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1305
                TSF: 0x0005d4de6e71e699
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
    IEEE 802.11 QoS Data, Flags: ........
        Type/Subtype: QoS Data (0x0028)
        Frame Control Field: 0x8800
            .... ..00 = Version: 0
            .... 10.. = Type: Data frame (2)
            1000 .... = Subtype: 8
            Flags: 0x00
                .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
                .... .0.. = More Fragments: This is the last fragment
                .... 0... = Retry: Frame is not being retransmitted
                ...0 .... = PWR MGT: STA will stay up
                ..0. .... = More Data: No data buffered
                .0.. .... = Protected flag: Data is not protected
                0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
        Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
        Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
        Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
        .... .... .... 0000 = Fragment number: 0
        0000 1101 0100 .... = Sequence number: 212
        Qos Control: 0x0023
            .... .... .... 0011 = TID: 3
            [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
            .... .... ...0 .... = EOSP: Service period
            .... .... .01. .... = Ack Policy: No Ack (0x1)
            .... .... 0... .... = Payload Type: MSDU
            0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (Beacon)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575805.727s (1575805727)
        Latitude: 48.7871640 (48°47'13.79"N) (487871640)
        Longitude: 9.2112013 (09°12'40.32"E) (92112013)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     14 43.920294238   CohdaWir_20:1d:4a     Broadcast             GeoNetworking 216    Beacon
Frame 14: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:27.385404767 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426687.385404767 seconds
    [Time delta from previous captured frame: 3.029982606 seconds]
    [Time delta from previous displayed frame: 3.029982606 seconds]
    [Time since reference or first frame: 43.920294238 seconds]
    Frame Number: 14
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0xffa0 (65440)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa51c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x0603 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 43.920294238 seconds]
        [Time since previous frame: 3.029982606 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 14
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200c5160000…
            MKxIFMsg: 02008200c516000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5829, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 5829
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ffe3faffff033ca06eded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1309, TSF=0x0005d4de6ea03c03, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1309
                TSF: 0x0005d4de6ea03c03
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0101 .... = Sequence number: 213
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575808.727s (1575808727)
        Latitude: 48.7871677 (48°47'13.80"N) (487871677)
        Longitude: 9.2112127 (09°12'40.37"E) (92112127)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
        Heading: 0.0° (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
     15 46.990318619   CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216     Beacon
Frame 15: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:30.455429148 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426690.455429148 seconds
    [Time delta from previous captured frame: 3.070024381 seconds]
    [Time delta from previous displayed frame: 3.070024381 seconds]
    [Time since reference or first frame: 46.990318619 seconds]
    Frame Number: 15
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0035 (53)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa488 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x7c4b [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 46.990318619 seconds]
        [Time since previous frame: 3.070024381 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 15
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200004000000004e5480038000200820003170000…
        MKxIFMsg: 020082000317000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5891, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5891
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff50fbffffb712cf6eded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1200, TSF=0x0005d4de6ecf12b7, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1200
            TSF: 0x0005d4de6ecf12b7
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0110 .... = Sequence number: 214
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575811.727s (1575811727)
        Latitude: 48.7871710 (48°47'13.82"N) (487871710)
        Longitude: 9.2112217 (09°12'40.40"E) (92112217)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
        Heading: 0.0° (0)
```

```
No.     Time            Source                Destination          Protocol Length Info
     16 50.020245352    CohdaWir_20:1d:4a     Broadcast            GeoNetworking 216     Beacon
Frame 16: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:33.485355881 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426693.485355881 seconds
    [Time delta from previous captured frame: 3.029926733 seconds]
    [Time delta from previous displayed frame: 3.029926733 seconds]
    [Time since reference or first frame: 50.020245352 seconds]
    Frame Number: 16
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0153 (339)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa36a [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x6260 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 50.020245352 seconds]
        [Time since previous frame: 3.029926733 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 16
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e548003800020082004117 0000...
        MKxIFMsg: 0200820041170000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=5953, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 5953
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff15fbffff4741fd6eded40500...
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1259, TSF=0x0005d4de6efd4147, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1259
            TSF: 0x0005d4de6efd4147
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 0111 .... = Sequence number: 215
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575814.727s (1575814727)
        Latitude: 48.7871749 (48°47'13.83"N) (487871749)
        Longitude: 9.2112294 (09°12'40.43"E) (92112294)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.    Time          Source              Destination         Protocol Length Info
    17 53.050256221  CohdaWir_20:1d:4a   Broadcast           GeoNetworking 216    Beacon
Frame 17: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:36.515366750 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426696.515366750 seconds
    [Time delta from previous captured frame: 3.030010869 seconds]
    [Time delta from previous displayed frame: 3.030010869 seconds]
    [Time since reference or first frame: 53.050256221 seconds]
    Frame Number: 17
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x01c9 (457)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa2f4 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x9d2c [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 53.050256221 seconds]
        [Time since previous frame: 3.030010869 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 17
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e548003800020082007f170000…
        MKxIFMsg: 020082007f17000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6015, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 6015
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff40fbffffef922b6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1216, TSF=0x0005d4de6f2b92ef, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1216
            TSF: 0x0005d4de6f2b92ef
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1000 .... = Sequence number: 216
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 60000 ms
                1111 00.. = Multiplier: 60
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0000 .... = Next Header: Any (0)
            .... 0000 = Reserved: 0
            0001 .... = Header Type: Beacon (1)
            .... 0000 = Header Subtype: Unspecified (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 0
            Maximum Hop Limit: 1
            Reserved: 0
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575817.727s (1575817727)
            Latitude: 48.7871783 (48°47'13.84"N) (487871783)
            Longitude: 9.2112385 (09°12'40.46"E) (92112385)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
            Heading: 0.0° (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
    18 56.490198724    CohdaWir_20:1d:4a    Broadcast           GeoNetworking 216    Beacon
Frame 18: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:39.955309253 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426699.955309253 seconds
    [Time delta from previous captured frame: 3.439942503 seconds]
    [Time delta from previous displayed frame: 3.439942503 seconds]
    [Time since reference or first frame: 56.490198724 seconds]
    Frame Number: 18
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x02f8 (760)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa1c5 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xde76 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 56.490198724 seconds]
        [Time since previous frame: 3.439942503 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 18
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002008200c4170000…
            MKxIFMsg: 02008200c417000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6084, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 6084
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3aff4cfaffff9412606fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1460, TSF=0x0005d4de6f601294, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1460
                TSF: 0x0005d4de6f601294
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1001 .... = Sequence number: 217
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
       Lifetime 60000 ms
           1111 00.. = Multiplier: 60
           .... ..01 = Base: 1 s (1)
       Remaining Hop Limit: 1
   Common Header
       0000 .... = Next Header: Any (0)
       .... 0000 = Reserved: 0
       0001 .... = Header Type: Beacon (1)
       .... 0000 = Header Subtype: Unspecified (0)
       Traffic Class: 0x02
           0... .... = Store-Carry-Forward: 0
           .0.. .... = Channel Offload: 0
           ..00 0010 = DP ID (DCC Profile Id): 2
       Flags: 0x80
           1... .... = Mobile Flag: Mobile (1)
           .000 0000 = Reserved: 0x00
       Payload Length: 0
       Maximum Hop Limit: 1
       Reserved: 0
   Source Position Vector
       GN Address: 0x140004e548201d4a
           0... .... .... .... = Assignment: Initial (0)
           .001 01.. .... .... = Station Type: Passenger Car (5)
           .... ..00 0000 0000 = Reserved: 0
           Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
       Timestamp: 1575820.727s (1575820727)
       Latitude: 48.7871821 (48°47'13.86"N) (487871821)
       Longitude: 9.2112447 (09°12'40.48"E) (92112447)
       1... .... .... .... = PAI: 1
       .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
       Heading: 0.0° (0)
```

```
No.     Time           Source              Destination           Protocol Length Info
     19 59.920239097   CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
Frame 19: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:43.385349626 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426703.385349626 seconds
    [Time delta from previous captured frame: 3.430040373 seconds]
    [Time delta from previous displayed frame: 3.430040373 seconds]
    [Time since reference or first frame: 59.920239097 seconds]
    Frame Number: 19
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x036a (874)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa153 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xacf2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 59.920239097 seconds]
        [Time since previous frame: 3.430040373 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 19
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e548003800020082000a180000…
            MKxIFMsg: 020082000a18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6154, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 130
                Seq: 6154
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff34ff95fbffffb563946fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1131, TSF=0x0005d4de6f9463b5, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -204
                FreqOffset: -1131
                TSF: 0x0005d4de6f9463b5
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1010 .... = Sequence number: 218
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575824.727s (1575824727)
        Latitude: 48.7871864 (48°47'13.87"N) (487871864)
        Longitude: 9.2112520 (09°12'40.51"E) (92112520)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
        Heading: 0.0° (0)
```

```
No.     Time            Source                Destination           Protocol Length Info
     20 63.170218545    CohdaWir_20:1d:4a     Broadcast             GeoNetworking 216    Beacon
Frame 20: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:46.635329074 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426706.635329074 seconds
    [Time delta from previous captured frame: 3.249979448 seconds]
    [Time delta from previous displayed frame: 3.249979448 seconds]
    [Time since reference or first frame: 63.170218545 seconds]
    Frame Number: 20
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0499 (1177)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0xa024 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x4ac2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.170218545 seconds]
        [Time since previous frame: 3.249979448 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 20
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e548003800020082004c180000…
        MKxIFMsg: 020082004c18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6220, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 130
            Seq: 6220
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff2eff34ff44fbffff0ff2c56fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-210, NoiseB=-204, FreqOffset=-1212, TSF=0x0005d4de6fc5f20f, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -210
            RxNoiseB: -204
            FreqOffset: -1212
            TSF: 0x0005d4de6fc5f20f
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1011 .... = Sequence number: 219
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575827.727s (1575827727)
        Latitude: 48.7871897 (48°47'13.88"N) (487871897)
        Longitude: 9.2112524 (09°12'40.51"E) (92112524)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
    21 63.670276401    CohdaWir_20:1d:4a     Broadcast             ITS      465    CAM(v2)
Frame 21: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.135386930 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.135386930 seconds
    [Time delta from previous captured frame: 0.500057856 seconds]
    [Time delta from previous displayed frame: 0.500057856 seconds]
    [Time since reference or first frame: 63.670276401 seconds]
    Frame Number: 21
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x04ac (1196)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f18 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xe036 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.670276401 seconds]
        [Time since previous frame: 0.500057856 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 21
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b0157180000…
        MKxIFMsg: 02007b0157180000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6231, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6231
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ffeafaffff9187cd6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1302, TSF=0x0005d4de6fcd8791, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1302
            TSF: 0x0005d4de6fcd8791
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1100 .... = Sequence number: 220
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (6492) (0x195c, 6.492 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110043770) (11.0043770 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4950) (49.50 m/s, 178.20 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                            pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.      Time           Source                Destination          Protocol Length Info
     22 63.690144879   CohdaWir_20:1d:4a     Broadcast            ITS      265    CAM(v2)
Frame 22: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.155255408 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.155255408 seconds
    [Time delta from previous captured frame: 0.019868478 seconds]
    [Time delta from previous displayed frame: 0.019868478 seconds]
    [Time since reference or first frame: 63.690144879 seconds]
    Frame Number: 22
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04ae (1198)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fde [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x9cb8 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.690144879 seconds]
        [Time since previous frame: 0.019868478 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 22
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30058180000…
        MKxIFMsg: 0200b3005818000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6232, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6232
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3afffdfafffffdff1cd6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1283, TSF=0x0005d4de6fcdf1df, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1283
            TSF: 0x0005d4de6fcdf1df
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1101 .... = Sequence number: 221
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (6592) (0x19c0, 6.592 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110043100) (11.0043100 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4905) (49.05 m/s, 176.58 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     23 63.790365022   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 23: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.255475551 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.255475551 seconds
    [Time delta from previous captured frame: 0.100220143 seconds]
    [Time delta from previous displayed frame: 0.100220143 seconds]
    [Time since reference or first frame: 63.790365022 seconds]
    Frame Number: 23
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04b1 (1201)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fdb [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xf906 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.790365022 seconds]
        [Time since previous frame: 0.100220143 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 23
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b3005b180000…
            MKxIFMsg: 0200b3005b18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6235, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6235
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff7afaffff8b54cf6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1414, TSF=0x0005d4de6fcf548b, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1414
                TSF: 0x0005d4de6fcf548b
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1110 .... = Sequence number: 222
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575828.727s (1575828727)
            Latitude: 48.7871905 (48°47'13.89"N) (487871905)
            Longitude: 9.2112513 (09°12'40.50"E) (92112513)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (6692) (0x1a24, 6.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110042430) (11.0042430 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4868) (48.68 m/s, 175.25 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source                 Destination             Protocol  Length  Info
     24 63.880144034    CohdaWir_20:1d:4a      Broadcast               ITS       265     CAM(v2)
Frame 24: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.345254563 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.345254563 seconds
    [Time delta from previous captured frame: 0.089779012 seconds]
    [Time delta from previous displayed frame: 0.089779012 seconds]
    [Time since reference or first frame: 63.880144034 seconds]
    Frame Number: 24
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04b3 (1203)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fd9 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x2ff2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.880144034 seconds]
        [Time since previous frame: 0.089779012 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 24
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b3005e180000…
            MKxIFMsg: 0200b3005e18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6238, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6238
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff0bfbfffffe4cbd06fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1269, TSF=0x0005d4de6fd0cbe4, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1269
                TSF: 0x0005d4de6fd0cbe4
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1101 1111 .... = Sequence number: 223
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (6792) (0x1a88, 6.792 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110041770) (11.0041770 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4823) (48.23 m/s, 173.63 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time          Source              Destination          Protocol Length Info
      25 63.980180821   CohdaWir_20:1d:4a   Broadcast            ITS      265    CAM(v2)
Frame 25: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.445291350 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.445291350 seconds
    [Time delta from previous captured frame: 0.100036787 seconds]
    [Time delta from previous displayed frame: 0.100036787 seconds]
    [Time since reference or first frame: 63.980180821 seconds]
    Frame Number: 25
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04b8 (1208)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fd4 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x2e52 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 63.980180821 seconds]
        [Time since previous frame: 0.100036787 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 25
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30061180000…
        MKxIFMsg: 0200b3006118000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6241, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6241
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff61fbffff9e3ed26fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1183, TSF=0x0005d4de6fd23e9e, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1183
            TSF: 0x0005d4de6fd23e9e
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0000 .... = Sequence number: 224
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575828.727s (1575828727)
            Latitude: 48.7871905 (48°47'13.89"N) (487871905)
            Longitude: 9.2112513 (09°12'40.50"E) (92112513)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (6892) (0x1aec, 6.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110041120) (11.0041120 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4783) (47.83 m/s, 172.19 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
    26 64.110318791    CohdaWir_20:1d:4a     Broadcast             ITS      465    CAM(v2)
Frame 26: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.575429320 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.575429320 seconds
    [Time delta from previous captured frame: 0.130137970 seconds]
    [Time delta from previous displayed frame: 0.130137970 seconds]
    [Time since reference or first frame: 64.110318791 seconds]
    Frame Number: 26
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x04bc (1212)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f08 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x5eda [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.110318791 seconds]
        [Time since previous frame: 0.130137970 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 26
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b0165180000…
        MKxIFMsg: 02007b016518000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6245, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6245
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff35faffff4c4ad46fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1483, TSF=0x0005d4de6fd44a4c, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1483
            TSF: 0x0005d4de6fd44a4c
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0001 .... = Sequence number: 225
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (6992) (0x1b50, 6.992 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110040470) (11.0040470 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4738) (47.38 m/s, 170.57 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                  Item 21
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
                  Item 22
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
```

```
No.    Time           Source              Destination          Protocol Length Info
    27 64.190232215   CohdaWir_20:1d:4a   Broadcast            ITS      265    CAM(v2)
Frame 27: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.655342744 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.655342744 seconds
    [Time delta from previous captured frame: 0.079913424 seconds]
    [Time delta from previous displayed frame: 0.079913424 seconds]
    [Time since reference or first frame: 64.190232215 seconds]
    Frame Number: 27
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04c2 (1218)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fca [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x0a49 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.190232215 seconds]
        [Time since previous frame: 0.079913424 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 27
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e5480038000200b30067180000…
            MKxIFMsg: 0200b3006718000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6247, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6247
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a4ffa0ff34ff34ff12fbffff907bd56fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1262, TSF=0x0005d4de6fd57b90, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -92
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1262
                TSF: 0x0005d4de6fd57b90
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0010 .... = Sequence number: 226
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575828.727s (1575828727)
            Latitude: 48.7871905 (48°47'13.89"N) (487871905)
            Longitude: 9.2112513 (09°12'40.50"E) (92112513)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7092) (0x1bb4, 7.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110039830) (11.0039830 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4694) (46.94 m/s, 168.98 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
     28 64.320218646    CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 28: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.785329175 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.785329175 seconds
    [Time delta from previous captured frame: 0.129986431 seconds]
    [Time delta from previous displayed frame: 0.129986431 seconds]
    [Time since reference or first frame: 64.320218646 seconds]
    Frame Number: 28
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04cc (1228)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fc0 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x7467 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.320218646 seconds]
        [Time since previous frame: 0.129986431 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 28
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000040000004e5480038000200b3006b180000…
            MKxIFMsg: 0200b3006b18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6251, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6251
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff8dfaffff8d77d76fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1395, TSF=0x0005d4de6fd7778d, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1395
                TSF: 0x0005d4de6fd7778d
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0011 .... = Sequence number: 227
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7192) (0x1c18, 7.192 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110039190) (11.0039190 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4656) (46.56 m/s, 167.62 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source              Destination         Protocol Length Info
    29 64.400141745  CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 29: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.865252274 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.865252274 seconds
    [Time delta from previous captured frame: 0.079923099 seconds]
    [Time delta from previous displayed frame: 0.079923099 seconds]
    [Time since reference or first frame: 64.400141745 seconds]
    Frame Number: 29
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04d4 (1236)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fb8 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xd7f5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.400141745 seconds]
        [Time since previous frame: 0.079923099 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 29
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3006e180000…
        MKxIFMsg: 0200b3006e18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6254, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6254
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff1cfbffffb1a3d86fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1252, TSF=0x0005d4de6fd8a3b1, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1252
            TSF: 0x0005d4de6fd8a3b1
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0100 .... = Sequence number: 228
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575828.727s (1575828727)
            Latitude: 48.7871905 (48°47'13.89"N) (487871905)
            Longitude: 9.2112513 (09°12'40.50"E) (92112513)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7292) (0x1c7c, 7.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110038560) (11.0038560 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4617) (46.17 m/s, 166.21 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination           Protocol  Length Info
    30 64.470211956    CohdaWir_20:1d:4a    Broadcast             ITS       265    CAM(v2)
Frame 30: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:47.935322485 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426707.935322485 seconds
    [Time delta from previous captured frame: 0.070070211 seconds]
    [Time delta from previous displayed frame: 0.070070211 seconds]
    [Time since reference or first frame: 64.470211956 seconds]
    Frame Number: 30
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04d9 (1241)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fb3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x35f9 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.470211956 seconds]
        [Time since previous frame: 0.070070211 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 30
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b30070180000…
        MKxIFMsg: 0200b3007018000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6256, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6256
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff2effb8fafffffc8cfd96fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-210, FreqOffset=-1352, TSF=0x0005d4de6fd9cfc8, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -210
            FreqOffset: -1352
            TSF: 0x0005d4de6fd9cfc8
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0101 .... = Sequence number: 229
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575828.727s (1575828727)
                Latitude: 48.7871905 (48°47'13.89"N) (487871905)
                Longitude: 9.2112513 (09°12'40.50"E) (92112513)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (7392) (0x1ce0, 7.392 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110037940) (11.0037940 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4572) (45.72 m/s, 164.59 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source               Destination          Protocol Length Info
     31 64.600257409   CohdaWir_20:1d:4a    Broadcast            ITS      465    CAM(v2)
Frame 31: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.065367938 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.065367938 seconds
    [Time delta from previous captured frame: 0.130045453 seconds]
    [Time delta from previous displayed frame: 0.130045453 seconds]
    [Time since reference or first frame: 64.600257409 seconds]
    Frame Number: 31
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x04e1 (1249)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ee3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x067b [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.600257409 seconds]
        [Time since previous frame: 0.130045453 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 31
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b0174180000…
            MKxIFMsg: 02007b017418000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6260, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6260
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a4ffa0ff34ff34ffecfaffffbbafdb6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1300, TSF=0x0005d4de6fdbafbb, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -92
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1300
                TSF: 0x0005d4de6fdbafbb
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0110 .... = Sequence number: 230
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575828.727s (1575828727)
            Latitude: 48.7871905 (48°47'13.89"N) (487871905)
            Longitude: 9.2112513 (09°12'40.50"E) (92112513)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7492) (0x1d44, 7.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110037320) (11.0037320 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4534) (45.34 m/s, 163.22 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                  Item 21
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
                  Item 22
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
```

```
No.      Time           Source                Destination           Protocol Length Info
      32 64.740336705   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 32: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.205447234 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.205447234 seconds
    [Time delta from previous captured frame: 0.140079296 seconds]
    [Time delta from previous displayed frame: 0.140079296 seconds]
    [Time since reference or first frame: 64.740336705 seconds]
    Frame Number: 32
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04e7 (1255)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fa5 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xdec7 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.740336705 seconds]
        [Time since previous frame: 0.140079296 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 32
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30077180000…
        MKxIFMsg: 0200b3007718000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6263, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6263
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff24faffff98dadd6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1500, TSF=0x0005d4de6fddda98, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1500
            TSF: 0x0005d4de6fddda98
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 0111 .... = Sequence number: 231
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575829.728s (1575829728)
                Latitude: 48.7871909 (48°47'13.89"N) (487871909)
                Longitude: 9.2112503 (09°12'40.50"E) (92112503)
                1... .... .... .... = PAI: 1
                .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (7592) (0x1da8, 7.592 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110036700) (11.0036700 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4497) (44.97 m/s, 161.89 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source              Destination         Protocol  Length  Info
    33 64.800213110    CohdaWir_20:1d:4a    Broadcast           ITS       265     CAM(v2)
Frame 33: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.265323639 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.265323639 seconds
    [Time delta from previous captured frame: 0.059876405 seconds]
    [Time delta from previous displayed frame: 0.059876405 seconds]
    [Time since reference or first frame: 64.800213110 seconds]
    Frame Number: 33
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04ec (1260)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9fa0 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x3cb5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.800213110 seconds]
        [Time since previous frame: 0.059876405 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 33
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
          Option Length: 1
          Rate: 6 Mbit/s (12)
      Frame check sequence
          Option Tag: Frame check sequence (17)
          Option Length: 1
          FCS: Frame is valid
      Cohda MKx Rx (LMAC) header
          Option Tag: Cohda MKx Rx (LMAC) header (242)
          Option Length: 72
      Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3007a180000…
          MKxIFMsg: 0200b3007a18000000000000
          MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6266, Ref=0, Reserved=0, Ret=0
              Type: 2
              Len: 179
              Seq: 6266
              Ref: 0
              Reserved: 0
              Ret: 0
          MKxRxPacketData: 00000a01a2ffa0ff34ff3aff94faffff28d7de6fded40500…
          MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
  NoiseA=-204, NoiseB=-198, FreqOffset=-1388, TSF=0x0005d4de6fded728, FrameLength=0123, Freq=5900
              RadioID: 0
              ChannelID: 0
              MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
              FCS: 0x01
              RxPowerA: -94
              RxPowerB: -96
              RxNoiseA: -204
              RxNoiseB: -198
              FreqOffset: -1388
              TSF: 0x0005d4de6fded728
              FrameLength: 123
              Freq: 5900
      End
          Option Tag: End (1)
  IEEE 802.11 QoS Data, Flags: ........
      Type/Subtype: QoS Data (0x0028)
      Frame Control Field: 0x8800
          .... ..00 = Version: 0
          .... 10.. = Type: Data frame (2)
          1000 .... = Subtype: 8
          Flags: 0x00
              .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
              .... .0.. = More Fragments: This is the last fragment
              .... 0... = Retry: Frame is not being retransmitted
              ...0 .... = PWR MGT: STA will stay up
              ..0. .... = More Data: No data buffered
              .0.. .... = Protected flag: Data is not protected
              0... .... = Order flag: Not strictly ordered
      .000 0000 0000 0000 = Duration: 0 microseconds
      Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
      Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
      Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
      .... .... .... 0000 = Fragment number: 0
      0000 1110 1000 .... = Sequence number: 232
      Qos Control: 0x0023
          .... .... .... 0011 = TID: 3
          [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
          .... .... ...0 .... = EOSP: Service period
          .... .... .01. .... = Ack Policy: No Ack (0x1)
          .... .... 0... .... = Payload Type: MSDU
          0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
  Logical-Link Control (LPD)
      DSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = IG Bit: Individual
      SSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = CR Bit: Command
      Control field: U, func=UI (0x03)
          000. 00.. = Command: Unnumbered Information (0x00)
          .... ..11 = Frame type: Unnumbered frame (0x3)
      Organization Code: 00:00:00 (Officially Xerox, but
      Type: ETSI GN (0x8947)
  GeoNetworking_CW: Common (TSB Single Hop)
      Basic Header
          0001 .... = Version: 1
          .... 0001 = Next Header: Common (1)
          Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575829.728s (1575829728)
                Latitude: 48.7871909 (48°47'13.89"N) (487871909)
                Longitude: 9.2112503 (09°12'40.50"E) (92112503)
                1... .... .... .... = PAI: 1
                .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (7692) (0x1e0c, 7.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110036100) (11.0036100 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4455) (44.55 m/s, 160.38 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source                Destination         Protocol  Length  Info
    34 64.870131415    CohdaWir_20:1d:4a     Broadcast            ITS       265     CAM(v2)
Frame 34: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.335241944 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.335241944 seconds
    [Time delta from previous captured frame: 0.069918305 seconds]
    [Time delta from previous displayed frame: 0.069918305 seconds]
    [Time since reference or first frame: 64.870131415 seconds]
    Frame Number: 34
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04ee (1262)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f9e [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xe562 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 64.870131415 seconds]
        [Time since previous frame: 0.069918305 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 34
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3007c180000…
            MKxIFMsg: 0200b3007c18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6268, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6268
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff2eff67fafffffa7e9df6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-210, FreqOffset=-1433, TSF=0x0005d4de6fdfe9a7, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -210
                FreqOffset: -1433
                TSF: 0x0005d4de6fdfe9a7
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1001 .... = Sequence number: 233
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7792) (0x1e70, 7.792 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110035490) (11.0035490 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4410) (44.10 m/s, 158.76 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
     35 65.000298022    CohdaWir_20:1d:4a   Broadcast             ITS      265    CAM(v2)
Frame 35: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.465408551 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.465408551 seconds
    [Time delta from previous captured frame: 0.130166607 seconds]
    [Time delta from previous displayed frame: 0.130166607 seconds]
    [Time since reference or first frame: 65.000298022 seconds]
    Frame Number: 35
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04f0 (1264)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f9c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xdef0 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.000298022 seconds]
        [Time since previous frame: 0.130166607 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 35
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30080180000…
            MKxIFMsg: 0200b3008018000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6272, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6272
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff25fbffff78cde16fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1243, TSF=0x0005d4de6fe1cd78, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1243
                TSF: 0x0005d4de6fe1cd78
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1010 .... = Sequence number: 234
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575829.728s (1575829728)
                Latitude: 48.7871909 (48°47'13.89"N) (487871909)
                Longitude: 9.2112503 (09°12'40.50"E) (92112503)
                1... .... .... .... = PAI: 1
                .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (7892) (0x1ed4, 7.892 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110034900) (11.0034900 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4368) (43.68 m/s, 157.25 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source              Destination        Protocol Length Info
    36 65.100242038   CohdaWir_20:1d:4a   Broadcast          ITS      465    CAM(v2)
Frame 36: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.565352567 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.565352567 seconds
    [Time delta from previous captured frame: 0.099944016 seconds]
    [Time delta from previous displayed frame: 0.099944016 seconds]
    [Time since reference or first frame: 65.100242038 seconds]
    Frame Number: 36
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x04f4 (1268)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ed0 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xbe17 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.100242038 seconds]
        [Time since previous frame: 0.099944016 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 36
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b0183180000…
        MKxIFMsg: 02007b018318000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6275, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6275
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffe5fafffffa062e36fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1307, TSF=0x0005d4de6fe362a0, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1307
            TSF: 0x0005d4de6fe362a0
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1011 .... = Sequence number: 235
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (7992) (0x1f38, 7.992 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110034300) (11.0034300 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4324) (43.24 m/s, 155.66 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                            pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

pathDeltaTime: Unknown (0)
Item 21
    PathPoint
        pathPosition
            deltaLatitude: unavailable (131072)
            deltaLongitude: unavailable (131072)
            deltaAltitude: unavailable (12800)
        pathDeltaTime: Unknown (0)

```
No.     Time            Source               Destination          Protocol  Length  Info
    37 65.200196861    CohdaWir_20:1d:4a    Broadcast            ITS       265     CAM(v2)
Frame 37: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.665307390 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.665307390 seconds
    [Time delta from previous captured frame: 0.099954823 seconds]
    [Time delta from previous displayed frame: 0.099954823 seconds]
    [Time since reference or first frame: 65.200196861 seconds]
    Frame Number: 37
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x04fa (1274)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f92 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xc110 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.200196861 seconds]
        [Time since previous frame: 0.099954823 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 37
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30086180000…
        MKxIFMsg: 0200b3008618000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6278, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6278
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff56fafffffebd9e46fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1450, TSF=0x0005d4de6fe4d9eb, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1450
            TSF: 0x0005d4de6fe4d9eb
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1100 .... = Sequence number: 236
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8092) (0x1f9c, 8.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110033720) (11.0033720 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4290) (42.90 m/s, 154.44 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source              Destination          Protocol Length Info
    38 65.280271328   CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 38: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.745381857 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.745381857 seconds
    [Time delta from previous captured frame: 0.080074467 seconds]
    [Time delta from previous displayed frame: 0.080074467 seconds]
    [Time since reference or first frame: 65.280271328 seconds]
    Frame Number: 38
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0501 (1281)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f8b [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x7378 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.280271328 seconds]
        [Time since previous frame: 0.080074467 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 38
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30088180000…
        MKxIFMsg: 0200b3008818000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6280, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6280
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3affb1faffff9f10e66fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1359, TSF=0x0005d4de6fe6109f, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1359
            TSF: 0x0005d4de6fe6109f
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1101 .... = Sequence number: 237
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8192) (0x2000, 8.192 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110033140) (11.0033140 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4245) (42.45 m/s, 152.82 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination        Protocol Length Info
     39 65.410501043  CohdaWir_20:1d:4a   Broadcast          ITS      265    CAM(v2)
Frame 39: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.875611572 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.875611572 seconds
    [Time delta from previous captured frame: 0.130229715 seconds]
    [Time delta from previous displayed frame: 0.130229715 seconds]
    [Time since reference or first frame: 65.410501043 seconds]
    Frame Number: 39
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x050b (1291)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f81 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xf92d [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.410501043 seconds]
        [Time since previous frame: 0.130229715 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 39
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b3008c180000…
        MKxIFMsg: 0200b3008c18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6284, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6284
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff6afbffffb01ee86fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1174, TSF=0x0005d4de6fe81eb0, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1174
            TSF: 0x0005d4de6fe81eb0
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1110 .... = Sequence number: 238
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8292) (0x2064, 8.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110032560) (11.0032560 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4201) (42.01 m/s, 151.24 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     40 65.490209789   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 40: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:48.955320318 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426708.955320318 seconds
    [Time delta from previous captured frame: 0.079708746 seconds]
    [Time delta from previous displayed frame: 0.079708746 seconds]
    [Time since reference or first frame: 65.490209789 seconds]
    Frame Number: 40
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0513 (1299)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f79 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xcbb6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.490209789 seconds]
        [Time since previous frame: 0.079708746 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 40
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
            Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3008e180000…
            MKxIFMsg: 0200b3008e18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6286, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6286
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff96faffff6a5de96fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1386, TSF=0x0005d4de6fe95d6a, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1386
                TSF: 0x0005d4de6fe95d6a
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1110 1111 .... = Sequence number: 239
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8392) (0x20c8, 8.392 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110031990) (11.0031990 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4165) (41.65 m/s, 149.94 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     41 65.590420118   CohdaWir_20:1d:4a     Broadcast             ITS      465    CAM(v2)
Frame 41: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.055530647 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.055530647 seconds
    [Time delta from previous captured frame: 0.100210329 seconds]
    [Time delta from previous displayed frame: 0.100210329 seconds]
    [Time since reference or first frame: 65.590420118 seconds]
    Frame Number: 41
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0516 (1302)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9eae [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x8803 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.590420118 seconds]
        [Time since previous frame: 0.100210329 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 41
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002007b0191180000…
            MKxIFMsg: 02007b0191180000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6289, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6289
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff91fbffff77ebea6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1135, TSF=0x0005d4de6feaeb77, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1135
                TSF: 0x0005d4de6feaeb77
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0000 .... = Sequence number: 240
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575829.728s (1575829728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112503 (09°12'40.50"E) (92112503)
            1... .... .... .... = PAI: 1
            .000 0000 0001 0000 = Speed: 0x0010 (0.16 m/s) (0.58 km/h) (16)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8492) (0x212c, 8.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110031430) (11.0031430 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (4125) (41.25 m/s, 148.50 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                        yawRate
                            yawRateValue: straight (0) (0.00 deg/sec)
                            yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 10
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 11
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 12
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 13
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 14
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 15
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 16
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 17
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 18
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 19
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 20
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
     42 65.700218353   CohdaWir_20:1d:4a   Broadcast            ITS      265    CAM(v2)
Frame 42: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.165328882 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.165328882 seconds
    [Time delta from previous captured frame: 0.109798235 seconds]
    [Time delta from previous displayed frame: 0.109798235 seconds]
    [Time since reference or first frame: 65.700218353 seconds]
    Frame Number: 42
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0518 (1304)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f74 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xa838 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.700218353 seconds]
        [Time since previous frame: 0.109798235 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 42
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000004800020000400000004e5480038000200b30095180000…
        MKxIFMsg: 0200b3009518000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6293, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6293
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff67faffff937aec6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1433, TSF=0x0005d4de6fec7a93, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1433
            TSF: 0x0005d4de6fec7a93
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0001 .... = Sequence number: 241
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575830.728s (1575830728)
                Latitude: 48.7871910 (48°47'13.89"N) (487871910)
                Longitude: 9.2112505 (09°12'40.50"E) (92112505)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (8592) (0x2190, 8.592 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110030870) (11.0030870 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (4086) (40.86 m/s, 147.10 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time           Source              Destination          Protocol Length Info
    43 65.830193728   CohdaWir_20:1d:4a   Broadcast            ITS      265    CAM(v2)
Frame 43: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.295304257 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.295304257 seconds
    [Time delta from previous captured frame: 0.129975375 seconds]
    [Time delta from previous displayed frame: 0.129975375 seconds]
    [Time since reference or first frame: 65.830193728 seconds]
    Frame Number: 43
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x051e (1310)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f6e [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x01d5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.830193728 seconds]
        [Time since previous frame: 0.129975375 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 43
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30098180000…
        MKxIFMsg: 0200b3009818000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6296, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6296
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a4ffa0ff34ff3aff2ffbffff2596ee6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1233, TSF=0x0005d4de6fee9625, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -92
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1233
            TSF: 0x0005d4de6fee9625
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0010 .... = Sequence number: 242
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575830.728s (1575830728)
                Latitude: 48.7871910 (48°47'13.89"N) (487871910)
                Longitude: 9.2112505 (09°12'40.50"E) (92112505)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (8692) (0x21f4, 8.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110030320) (11.0030320 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4041) (40.41 m/s, 145.48 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination         Protocol  Length  Info
    44 65.910154376    CohdaWir_20:1d:4a    Broadcast           ITS       265     CAM(v2)
Frame 44: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.375264905 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.375264905 seconds
    [Time delta from previous captured frame: 0.079960648 seconds]
    [Time delta from previous displayed frame: 0.079960648 seconds]
    [Time since reference or first frame: 65.910154376 seconds]
    Frame Number: 44
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0521 (1313)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f6b [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xe22a [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.910154376 seconds]
        [Time since previous frame: 0.079960648 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 44
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3009b180000…
            MKxIFMsg: 0200b3009b18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6299, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6299
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff34ffdbfaffff90b0ef6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1317, TSF=0x0005d4de6fefb090, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -204
                FreqOffset: -1317
                TSF: 0x0005d4de6fefb090
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0011 .... = Sequence number: 243
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575830.728s (1575830728)
                Latitude: 48.7871910 (48°47'13.89"N) (487871910)
                Longitude: 9.2112505 (09°12'40.50"E) (92112505)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (8792) (0x2258, 8.792 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110029770) (11.0029770 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (4000) (40.00 m/s, 144.00 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     45 65.990430057   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 45: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.455540586 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.455540586 seconds
    [Time delta from previous captured frame: 0.080275681 seconds]
    [Time delta from previous displayed frame: 0.080275681 seconds]
    [Time since reference or first frame: 65.990430057 seconds]
    Frame Number: 45
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0527 (1319)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f65 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x1d15 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 65.990430057 seconds]
        [Time since previous frame: 0.080275681 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 45
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3009d180000…
        MKxIFMsg: 0200b3009d18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6301, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6301
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34fff6faffffb2fcf06fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1290, TSF=0x0005d4de6ff0fcb2, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1290
            TSF: 0x0005d4de6ff0fcb2
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0100 .... = Sequence number: 244
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575830.728s (1575830728)
            Latitude: 48.7871910 (48°47'13.89"N) (487871910)
            Longitude: 9.2112505 (09°12'40.50"E) (92112505)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8892) (0x22bc, 8.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110029230) (11.0029230 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3959) (39.59 m/s, 142.52 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination          Protocol Length Info
    46 66.100211168    CohdaWir_20:1d:4a    Broadcast            ITS      465    CAM(v2)
Frame 46: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.565321697 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.565321697 seconds
    [Time delta from previous captured frame: 0.109781111 seconds]
    [Time delta from previous displayed frame: 0.109781111 seconds]
    [Time since reference or first frame: 66.100211168 seconds]
    Frame Number: 46
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x052a (1322)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e9a [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xcd25 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.100211168 seconds]
        [Time since previous frame: 0.109781111 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b01a1180000…
        MKxIFMsg: 02007b01a118000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6305, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6305
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff77fafff0b9bf26fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1417, TSF=0x0005d4de6ff29b0b, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1417
            TSF: 0x0005d4de6ff29b0b
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0101 .... = Sequence number: 245
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575830.728s (1575830728)
            Latitude: 48.7871910 (48°47'13.89"N) (487871910)
            Longitude: 9.2112505 (09°12'40.50"E) (92112505)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (8992) (0x2320, 8.992 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110028700) (11.0028700 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3920) (39.20 m/s, 141.12 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
          lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
              basicVehicleContainerLowFrequency
                  vehicleRole: default (0)
                  exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                      0... .... lowBeamHeadlightsOn: False
                      .0.. .... highBeamHeadlightsOn: False
                      ..0. .... leftTurnSignalOn: False
                      ...0 .... rightTurnSignalOn: False
                      .... 1... daytimeRunningLightsOn: True
                      .... .0.. reverseLightOn: False
                      .... ..0. fogLightOn: False
                      .... ...0 parkingLightsOn: False
                  pathHistory: 23 items
                      Item 0
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 1
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 2
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 3
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 4
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 5
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 6
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 7
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 8
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 9
                          PathPoint
```

```
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 10
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 11
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 12
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 13
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 14
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 15
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 16
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 17
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 18
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 19
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 20
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.     Time            Source              Destination          Protocol Length Info
     47 66.200203343    CohdaWir_20:1d:4a   Broadcast            ITS      265    CAM(v2)
Frame 47: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.665313872 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.665313872 seconds
    [Time delta from previous captured frame: 0.099992175 seconds]
    [Time delta from previous displayed frame: 0.099992175 seconds]
    [Time since reference or first frame: 66.200203343 seconds]
    Frame Number: 47
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0534 (1332)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f58 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x68b0 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.200203343 seconds]
        [Time since previous frame: 0.099992175 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b300a4180000…
        MKxIFMsg: 0200b300a418000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6308, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6308
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff64faffffa41ff46fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1436, TSF=0x0005d4de6ff41fa4, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1436
            TSF: 0x0005d4de6ff41fa4
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0110 .... = Sequence number: 246
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575830.728s (1575830728)
            Latitude: 48.7871910 (48°47'13.89"N) (487871910)
            Longitude: 9.2112505 (09°12'40.50"E) (92112505)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (9092) (0x2384, 9.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110028170) (11.0028170 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3882) (38.82 m/s, 139.75 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source              Destination          Protocol Length Info
    48 66.410324779    CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 48: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:49.875435308 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426709.875435308 seconds
    [Time delta from previous captured frame: 0.210121436 seconds]
    [Time delta from previous displayed frame: 0.210121436 seconds]
    [Time since reference or first frame: 66.410324779 seconds]
    Frame Number: 48
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0540 (1344)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f4c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x7df1 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.410324779 seconds]
        [Time since previous frame: 0.210121436 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 48
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300a9180000…
            MKxIFMsg: 0200b300a918000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6313, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6313
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ffb1fafffff1557f76fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1359, TSF=0x0005d4de6ff75715, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1359
                TSF: 0x0005d4de6ff75715
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 0111 .... = Sequence number: 247
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575830.728s (1575830728)
                Latitude: 48.7871910 (48°47'13.89"N) (487871910)
                Longitude: 9.2112505 (09°12'40.50"E) (92112505)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (9292) (0x244c, 9.292 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110027120) (11.0027120 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (3792) (37.92 m/s, 136.51 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination         Protocol Length Info
     49 66.600249682  CohdaWir_20:1d:4a   Broadcast           ITS      465    CAM(v2)
Frame 49: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:50.065360211 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426710.065360211 seconds
    [Time delta from previous captured frame: 0.189924903 seconds]
    [Time delta from previous displayed frame: 0.189924903 seconds]
    [Time since reference or first frame: 66.600249682 seconds]
    Frame Number: 49
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0553 (1363)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e71 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xb1be [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.600249682 seconds]
        [Time since previous frame: 0.189924903 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 49
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000040000004e54800380002007b01ae180000…
        MKxIFMsg: 02007b01ae18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6318, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6318
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a4ffa0ff34ff3aff02fbffff163efa6fded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1278, TSF=0x0005d4de6ffa3e16, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -92
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1278
            TSF: 0x0005d4de6ffa3e16
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1000 .... = Sequence number: 248
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575830.728s (1575830728)
                Latitude: 48.7871910 (48°47'13.89"N) (487871910)
                Longitude: 9.2112505 (09°12'40.50"E) (92112505)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (9492) (0x2514, 9.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110026100) (11.0026100 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3713) (37.13 m/s, 133.67 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.      Time           Source               Destination          Protocol Length Info
    50 66.800226565    CohdaWir_20:1d:4a     Broadcast            ITS      265    CAM(v2)
Frame 50: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:50.265337094 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426710.265337094 seconds
    [Time delta from previous captured frame: 0.199976883 seconds]
    [Time delta from previous displayed frame: 0.199976883 seconds]
    [Time since reference or first frame: 66.800226565 seconds]
    Frame Number: 50
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0567 (1383)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f25 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x872e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.800226565 seconds]
        [Time since previous frame: 0.199976883 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 50
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300b3180000…
            MKxIFMsg: 0200b300b318000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6323, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6323
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff31fbffff3b48fd6fded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1231, TSF=0x0005d4de6ffd483b, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1231
                TSF: 0x0005d4de6ffd483b
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1001 .... = Sequence number: 249
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575831.728s (1575831728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112495 (09°12'40.50"E) (92112495)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (9692) (0x25dc, 9.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110025100) (11.0025100 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3629) (36.29 m/s, 130.64 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source                  Destination           Protocol Length Info
     51 66.990270841    CohdaWir_20:1d:4a        Broadcast             ITS      265    CAM(v2)
Frame 51: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:50.455381370 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426710.455381370 seconds
    [Time delta from previous captured frame: 0.190044276 seconds]
    [Time delta from previous displayed frame: 0.190044276 seconds]
    [Time since reference or first frame: 66.990270841 seconds]
    Frame Number: 51
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0576 (1398)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f16 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x02c9 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 66.990270841 seconds]
        [Time since previous frame: 0.190044276 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 51
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300b7180000…
            MKxIFMsg: 0200b300b718000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6327, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6327
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff2eff3aff87fbffff73300070ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-210, NoiseB=-198, FreqOffset=-1145, TSF=0x0005d4de70003073, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -210
                RxNoiseB: -198
                FreqOffset: -1145
                TSF: 0x0005d4de70003073
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1010 .... = Sequence number: 250
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575831.728s (1575831728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112495 (09°12'40.50"E) (92112495)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (9892) (0x26a4, 9.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110024130) (11.0024130 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3555) (35.55 m/s, 127.98 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
    52 67.190353526    CohdaWir_20:1d:4a    Broadcast           ITS      465    CAM(v2)
Frame 52: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:50.655464055 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426710.655464055 seconds
    [Time delta from previous captured frame: 0.200082685 seconds]
    [Time delta from previous displayed frame: 0.200082685 seconds]
    [Time since reference or first frame: 67.190353526 seconds]
    Frame Number: 52
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0583 (1411)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e41 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x5d97 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 67.190353526 seconds]
        [Time since previous frame: 0.200082685 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 52
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b01bc180000…
            MKxIFMsg: 02007b01bc18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6332, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6332
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3affa7fafffffae560370ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1369, TSF=0x0005d4de700356ae, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1369
                TSF: 0x0005d4de700356ae
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1011 .... = Sequence number: 251
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575831.728s (1575831728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112495 (09°12'40.50"E) (92112495)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (10092) (0x276c, 10.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110023170) (11.0023170 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3472) (34.72 m/s, 124.99 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                yawRate
                    yawRateValue: straight (0) (0.00 deg/sec)
                    yawRateConfidence: degSec-000-01 (0)
        lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
            basicVehicleContainerLowFrequency
                vehicleRole: default (0)
                exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                    0... .... lowBeamHeadlightsOn: False
                    .0.. .... highBeamHeadlightsOn: False
                    ..0. .... leftTurnSignalOn: False
                    ...0 .... rightTurnSignalOn: False
                    .... 1... daytimeRunningLightsOn: True
                    .... .0.. reverseLightOn: False
                    .... ..0. fogLightOn: False
                    .... ...0 parkingLightsOn: False
                pathHistory: 23 items
                    Item 0
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 1
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 2
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 3
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 4
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 5
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 6
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 7
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 8
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 9
                        PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time           Source              Destination         Protocol Length Info
     53 67.410586030   CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 53: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:50.875696559 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426710.875696559 seconds
    [Time delta from previous captured frame: 0.220232504 seconds]
    [Time delta from previous displayed frame: 0.220232504 seconds]
    [Time since reference or first frame: 67.410586030 seconds]
    Frame Number: 53
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0588 (1416)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9f04 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xe6bb [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 67.410586030 seconds]
        [Time since previous frame: 0.220232504 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 53
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000040000004e5480038000200b300c2180000…
        MKxIFMsg: 0200b300c218000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6338, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6338
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34fffdfaffff519e0670ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1283, TSF=0x0005d4de70069e51, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1283
            TSF: 0x0005d4de70069e51
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1100 .... = Sequence number: 252
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575831.728s (1575831728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112495 (09°12'40.50"E) (92112495)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (10292) (0x2834, 10.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110022240) (11.0022240 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3388) (33.88 m/s, 121.97 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source              Destination           Protocol Length Info
    54 67.610336344  CohdaWir_20:1d:4a   Broadcast             ITS      265    CAM(v2)
Frame 54: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:51.075446873 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426711.075446873 seconds
    [Time delta from previous captured frame: 0.199750314 seconds]
    [Time delta from previous displayed frame: 0.199750314 seconds]
    [Time since reference or first frame: 67.610336344 seconds]
    Frame Number: 54
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0599 (1433)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ef3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x5b5f [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 67.610336344 seconds]
        [Time since previous frame: 0.199750314 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 54
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b300c7180000…
        MKxIFMsg: 0200b300c718000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6343, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6343
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff6bfaffffb6a10970ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1429, TSF=0x0005d4de7009a1b6, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1429
            TSF: 0x0005d4de7009a1b6
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1101 .... = Sequence number: 253
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575831.728s (1575831728)
                Latitude: 48.7871911 (48°47'13.89"N) (487871911)
                Longitude: 9.2112495 (09°12'40.50"E) (92112495)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (10492) (0x28fc, 10.492 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110021330) (11.0021330 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (3312) (33.12 m/s, 119.23 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source              Destination          Protocol Length Info
    55 67.790462373   CohdaWir_20:1d:4a     Broadcast            ITS      465    CAM(v2)
Frame 55: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:51.255572902 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426711.255572902 seconds
    [Time delta from previous captured frame: 0.180126029 seconds]
    [Time delta from previous displayed frame: 0.180126029 seconds]
    [Time since reference or first frame: 67.790462373 seconds]
    Frame Number: 55
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x05a1 (1441)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e23 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x99a4 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 67.790462373 seconds]
        [Time since previous frame: 0.180126029 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 55
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
              Option Length: 1
              Rate: 6 Mbit/s (12)
          Frame check sequence
              Option Tag: Frame check sequence (17)
              Option Length: 1
              FCS: Frame is valid
          Cohda MKx Rx (LMAC) header
              Option Tag: Cohda MKx Rx (LMAC) header (242)
              Option Length: 72
          Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b01cb180000…
              MKxIFMsg: 02007b01cb18000000000000
              MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6347, Ref=0, Reserved=0, Ret=0
                  Type: 2
                  Len: 379
                  Seq: 6347
                  Ref: 0
                  Reserved: 0
                  Ret: 0
              MKxRxPacketData: 00000a01a2ffa0ff34ff34ffdefaffff73710c70ded40500…
              MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
  NoiseA=-204, NoiseB=-204, FreqOffset=-1314, TSF=0x0005d4de700c7173, FrameLength=0323, Freq=5900
                  RadioID: 0
                  ChannelID: 0
                  MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                  FCS: 0x01
                  RxPowerA: -94
                  RxPowerB: -96
                  RxNoiseA: -204
                  RxNoiseB: -204
                  FreqOffset: -1314
                  TSF: 0x0005d4de700c7173
                  FrameLength: 323
                  Freq: 5900
          End
              Option Tag: End (1)
  IEEE 802.11 QoS Data, Flags: ........
      Type/Subtype: QoS Data (0x0028)
      Frame Control Field: 0x8800
          .... ..00 = Version: 0
          .... 10.. = Type: Data frame (2)
          1000 .... = Subtype: 8
          Flags: 0x00
              .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
              .... .0.. = More Fragments: This is the last fragment
              .... 0... = Retry: Frame is not being retransmitted
              ...0 .... = PWR MGT: STA will stay up
              ..0. .... = More Data: No data buffered
              .0.. .... = Protected flag: Data is not protected
              0... .... = Order flag: Not strictly ordered
      .000 0000 0000 0000 = Duration: 0 microseconds
      Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
      Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
      Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
      .... .... .... 0000 = Fragment number: 0
      0000 1111 1110 .... = Sequence number: 254
      Qos Control: 0x0023
          .... .... .... 0011 = TID: 3
          [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
          .... .... ...0 .... = EOSP: Service period
          .... .... .01. .... = Ack Policy: No Ack (0x1)
          .... .... 0... .... = Payload Type: MSDU
          0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
  Logical-Link Control (LPD)
      DSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = IG Bit: Individual
      SSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = CR Bit: Command
      Control field: U, func=UI (0x03)
          000. 00.. = Command: Unnumbered Information (0x00)
          .... ..11 = Frame type: Unnumbered frame (0x3)
      Organization Code: 00:00:00 (Officially Xerox, but
      Type: ETSI GN (0x8947)
  GeoNetworking_CW: Common (TSB Single Hop)
      Basic Header
          0001 .... = Version: 1
          .... 0001 = Next Header: Common (1)
          Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575832.728s (1575832728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112486 (09°12'40.49"E) (92112486)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (10692) (0x29c4, 10.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110020440) (11.0020440 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3227) (32.27 m/s, 116.17 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                        Item 21
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 22
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
```

```
No.    Time            Source                Destination           Protocol Length Info
    56 68.050282955    CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 56: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:51.515393484 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426711.515393484 seconds
    [Time delta from previous captured frame: 0.259820582 seconds]
    [Time delta from previous displayed frame: 0.259820582 seconds]
    [Time since reference or first frame: 68.050282955 seconds]
    Frame Number: 56
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05b3 (1459)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ed9 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x444a [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 68.050282955 seconds]
        [Time since previous frame: 0.259820582 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 56
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000040000004e5480038000200b300d2180000…
        MKxIFMsg: 0200b300d218000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6354, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6354
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff3aff6ffbffff8c551070ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1169, TSF=0x0005d4de7010558c, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -198
            FreqOffset: -1169
            TSF: 0x0005d4de7010558c
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0000 1111 1111 .... = Sequence number: 255
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575832.728s (1575832728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112486 (09°12'40.49"E) (92112486)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (10892) (0x2a8c, 10.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110019570) (11.0019570 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3150) (31.50 m/s, 113.40 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source               Destination           Protocol Length Info
     57 68.190513983    CohdaWir_20:1d:4a    Broadcast             ITS      265    CAM(v2)
Frame 57: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:51.655624512 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426711.655624512 seconds
    [Time delta from previous captured frame: 0.140231028 seconds]
    [Time delta from previous displayed frame: 0.140231028 seconds]
    [Time since reference or first frame: 68.190513983 seconds]
    Frame Number: 57
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05c1 (1473)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ecb [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xdeed [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 68.190513983 seconds]
        [Time since previous frame: 0.140231028 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 57
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300d5180000…
            MKxIFMsg: 0200b300d518000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6357, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6357
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff56faffff4961270ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1450, TSF=0x0005d4de701296f4, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1450
                TSF: 0x0005d4de701296f4
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0000 .... = Sequence number: 256
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575832.728s (1575832728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112486 (09°12'40.49"E) (92112486)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (11092) (0x2b54, 11.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110018730) (11.0018730 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (3076) (30.76 m/s, 110.74 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination         Protocol Length Info
    58 68.390466940   CohdaWir_20:1d:4a   Broadcast           ITS      465    CAM(v2)
Frame 58: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:51.855577469 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426711.855577469 seconds
    [Time delta from previous captured frame: 0.199952957 seconds]
    [Time delta from previous displayed frame: 0.199952957 seconds]
    [Time since reference or first frame: 68.390466940 seconds]
    Frame Number: 58
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x05c2 (1474)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e02 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x36b6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 68.390466940 seconds]
        [Time since previous frame: 0.199952957 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 58
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002007b01da180000…
        MKxIFMsg: 02007b01da18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6362, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6362
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffd8fbffff05a91570ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1064, TSF=0x0005d4de7015a905, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1064
            TSF: 0x0005d4de7015a905
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0001 .... = Sequence number: 257
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575832.728s (1575832728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112486 (09°12'40.49"E) (92112486)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (11292) (0x2c1c, 11.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110017900) (11.0017900 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2991) (29.91 m/s, 107.68 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 10
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 11
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 12
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 13
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 14
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 15
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 16
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 17
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 18
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 19
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 20
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                  Item 21
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
                  Item 22
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
```

```
                              pathDeltaTime: Unknown (0)
                  Item 21
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
     59 68.600386072    CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 59: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:52.065496601 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426712.065496601 seconds
    [Time delta from previous captured frame: 0.209919132 seconds]
    [Time delta from previous displayed frame: 0.209919132 seconds]
    [Time since reference or first frame: 68.600386072 seconds]
    Frame Number: 59
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05cb (1483)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ec1 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x3caf [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 68.600386072 seconds]
        [Time since previous frame: 0.209919132 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 59
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300e0180000…
            MKxIFMsg: 0200b300e018000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6368, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6368
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff34ff81faffff64bb1870ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1407, TSF=0x0005d4de7018bb64, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -204
                FreqOffset: -1407
                TSF: 0x0005d4de7018bb64
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0010 .... = Sequence number: 258
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575832.728s (1575832728)
            Latitude: 48.7871911 (48°47'13.89"N) (487871911)
            Longitude: 9.2112486 (09°12'40.49"E) (92112486)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (11492) (0x2ce4, 11.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110017100) (11.0017100 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2915) (29.15 m/s, 104.94 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source               Destination          Protocol Length Info
     60 68.790285934    CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 60: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:52.255396463 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426712.255396463 seconds
    [Time delta from previous captured frame: 0.189899862 seconds]
    [Time delta from previous displayed frame: 0.189899862 seconds]
    [Time since reference or first frame: 68.790285934 seconds]
    Frame Number: 60
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05cc (1484)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9ec0 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x7109 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 68.790285934 seconds]
        [Time since previous frame: 0.189899862 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 60
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300e4180000…
        MKxIFMsg: 0200b300e418000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6372, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6372
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff4cfaffffe1b41b70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1460, TSF=0x0005d4de701bb4e1, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1460
            TSF: 0x0005d4de701bb4e1
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0011 .... = Sequence number: 259
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575833.728s (1575833728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112482 (09°12'40.49"E) (92112482)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (11692) (0x2dac, 11.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110016320) (11.0016320 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2835) (28.35 m/s, 102.06 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source              Destination          Protocol Length Info
    61 69.000228388   CohdaWir_20:1d:4a     Broadcast            ITS      465    CAM(v2)
Frame 61: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:52.465338917 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426712.465338917 seconds
    [Time delta from previous captured frame: 0.209942454 seconds]
    [Time delta from previous displayed frame: 0.209942454 seconds]
    [Time since reference or first frame: 69.000228388 seconds]
    Frame Number: 61
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x05ce (1486)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9df6 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xbf85 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 69.000228388 seconds]
        [Time since previous frame: 0.209942454 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 61
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b01ea180000…
        MKxIFMsg: 02007b01ea18000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6378, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6378
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffeffaffff9ed81e70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1297, TSF=0x0005d4de701ed89e, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1297
            TSF: 0x0005d4de701ed89e
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0100 .... = Sequence number: 260
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575833.728s (1575833728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112482 (09°12'40.49"E) (92112482)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (11892) (0x2e74, 11.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110015560) (11.0015560 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2760) (27.60 m/s, 99.36 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
      62 69.190283354   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 62: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:52.655393883 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426712.655393883 seconds
    [Time delta from previous captured frame: 0.190054966 seconds]
    [Time delta from previous displayed frame: 0.190054966 seconds]
    [Time since reference or first frame: 69.190283354 seconds]
    Frame Number: 62
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05dd (1501)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9eaf [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x15a3 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 69.190283354 seconds]
        [Time since previous frame: 0.190054966 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 62
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e5480038000200b300ee180000…
            MKxIFMsg: 0200b300ee18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6382, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6382
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff3affcdfaffff6cc62170ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1331, TSF=0x0005d4de7021c66c, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -198
                FreqOffset: -1331
                TSF: 0x0005d4de7021c66c
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0101 .... = Sequence number: 261
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575833.728s (1575833728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112482 (09°12'40.49"E) (92112482)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (12092) (0x2f3c, 12.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110014820) (11.0014820 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2682) (26.82 m/s, 96.55 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source              Destination          Protocol  Length  Info
    63 69.400214439   CohdaWir_20:1d:4a     Broadcast            ITS       265     CAM(v2)
Frame 63: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:52.865324968 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426712.865324968 seconds
    [Time delta from previous captured frame: 0.209931085 seconds]
    [Time delta from previous displayed frame: 0.209931085 seconds]
    [Time since reference or first frame: 69.400214439 seconds]
    Frame Number: 63
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x05ed (1517)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e9f [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x9907 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 69.400214439 seconds]
        [Time since previous frame: 0.209931085 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 63
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b300f4180000…
            MKxIFMsg: 0200b300f418000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6388, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6388
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff06fbffffc3fd2470ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1274, TSF=0x0005d4de7024fdc3, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1274
                TSF: 0x0005d4de7024fdc3
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 0110 .... = Sequence number: 262
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575833.728s (1575833728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112482 (09°12'40.49"E) (92112482)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (12292) (0x3004, 12.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110014110) (11.0014110 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2594) (25.94 m/s, 93.38 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source              Destination          Protocol Length Info
    64 69.590434902    CohdaWir_20:1d:4a     Broadcast            ITS      465    CAM(v2)
Frame 64: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:53.055545431 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426713.055545431 seconds
    [Time delta from previous captured frame: 0.190220463 seconds]
    [Time delta from previous displayed frame: 0.190220463 seconds]
    [Time since reference or first frame: 69.590434902 seconds]
    Frame Number: 64
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x05fa (1530)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9dca [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x0d35 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 69.590434902 seconds]
        [Time since previous frame: 0.190220463 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 64
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
          Option Length: 1
          Rate: 6 Mbit/s (12)
      Frame check sequence
          Option Tag: Frame check sequence (17)
          Option Length: 1
          FCS: Frame is valid
      Cohda MKx Rx (LMAC) header
          Option Tag: Cohda MKx Rx (LMAC) header (242)
          Option Length: 72
      Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002007b01f8180000…
          MKxIFMsg: 02007b01f818000000000000
          MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6392, Ref=0, Reserved=0, Ret=0
              Type: 2
              Len: 379
              Seq: 6392
              Ref: 0
              Reserved: 0
              Ret: 0
          MKxRxPacketData: 00000a01a2ffa0ff34ff3affa5faffff82f42770ded40500…
          MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
  NoiseA=-204, NoiseB=-198, FreqOffset=-1371, TSF=0x0005d4de7027f482, FrameLength=0323, Freq=5900
              RadioID: 0
              ChannelID: 0
              MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
              FCS: 0x01
              RxPowerA: -94
              RxPowerB: -96
              RxNoiseA: -204
              RxNoiseB: -198
              FreqOffset: -1371
              TSF: 0x0005d4de7027f482
              FrameLength: 323
              Freq: 5900
      End
          Option Tag: End (1)
  IEEE 802.11 QoS Data, Flags: ........
      Type/Subtype: QoS Data (0x0028)
      Frame Control Field: 0x8800
          .... ..00 = Version: 0
          .... 10.. = Type: Data frame (2)
          1000 .... = Subtype: 8
          Flags: 0x00
              .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
              .... .0.. = More Fragments: This is the last fragment
              .... 0... = Retry: Frame is not being retransmitted
              ...0 .... = PWR MGT: STA will stay up
              ..0. .... = More Data: No data buffered
              .0.. .... = Protected flag: Data is not protected
              0... .... = Order flag: Not strictly ordered
      .000 0000 0000 0000 = Duration: 0 microseconds
      Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
      Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
      Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
      .... .... .... 0000 = Fragment number: 0
      0001 0000 0111 .... = Sequence number: 263
      Qos Control: 0x0023
          .... .... .... 0011 = TID: 3
          [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
          .... .... ...0 .... = EOSP: Service period
          .... .... .01. .... = Ack Policy: No Ack (0x1)
          .... .... 0... .... = Payload Type: MSDU
          0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
  Logical-Link Control (LPD)
      DSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = IG Bit: Individual
      SSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = CR Bit: Command
      Control field: U, func=UI (0x03)
          000. 00.. = Command: Unnumbered Information (0x00)
          .... ..11 = Frame type: Unnumbered frame (0x3)
      Organization Code: 00:00:00 (Officially Xerox, but
      Type: ETSI GN (0x8947)
  GeoNetworking_CW: Common (TSB Single Hop)
      Basic Header
          0001 .... = Version: 1
          .... 0001 = Next Header: Common (1)
          Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575833.728s (1575833728)
            Latitude: 48.7871909 (48°47'13.89"N) (487871909)
            Longitude: 9.2112482 (09°12'40.49"E) (92112482)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (12492) (0x30cc, 12.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110013410) (11.0013410 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2527) (25.27 m/s, 90.97 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                        yawRate
                            yawRateValue: straight (0) (0.00 deg/sec)
                            yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 10
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 11
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 12
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 13
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 14
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 15
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 16
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 17
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 18
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 19
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
                pathDeltaTime: Unknown (0)
        Item 20
            PathPoint
                pathPosition
                    deltaLatitude: unavailable (131072)
                    deltaLongitude: unavailable (131072)
                    deltaAltitude: unavailable (12800)
```

```
                                    pathDeltaTime: Unknown (0)
                        Item 21
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 22
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
```

```
No.     Time          Source              Destination         Protocol Length Info
     65 69.790384875  CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 65: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:53.255495404 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426713.255495404 seconds
    [Time delta from previous captured frame: 0.199949973 seconds]
    [Time delta from previous displayed frame: 0.199949973 seconds]
    [Time since reference or first frame: 69.790384875 seconds]
    Frame Number: 65
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0600 (1536)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e8c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x0540 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 69.790384875 seconds]
        [Time since previous frame: 0.199949973 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 65
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b300fd180000…
            MKxIFMsg: 0200b300fd18000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6397, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6397
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff85fbffff29fc2a70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1147, TSF=0x0005d4de702afc29, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1147
                TSF: 0x0005d4de702afc29
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1000 .... = Sequence number: 264
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575834.728s (1575834728)
            Latitude: 48.7871908 (48°47'13.89"N) (487871908)
            Longitude: 9.2112475 (09°12'40.49"E) (92112475)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (12692) (0x3194, 12.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110012740) (11.0012740 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2445) (24.45 m/s, 88.02 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source                Destination           Protocol Length Info
    66 70.000203399   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 66: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:53.465313928 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426713.465313928 seconds
    [Time delta from previous captured frame: 0.209818524 seconds]
    [Time delta from previous displayed frame: 0.209818524 seconds]
    [Time since reference or first frame: 70.000203399 seconds]
    Frame Number: 66
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x060f (1551)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e7d [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x9a2b [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 70.000203399 seconds]
        [Time since previous frame: 0.209818524 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 66
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30003190000…
            MKxIFMsg: 0200b30003190000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6403, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6403
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3affccf9ffffdd202e70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1588, TSF=0x0005d4de702e20dd, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1588
                TSF: 0x0005d4de702e20dd
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1001 .... = Sequence number: 265
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575834.728s (1575834728)
            Latitude: 48.7871908 (48°47'13.89"N) (487871908)
            Longitude: 9.2112475 (09°12'40.49"E) (92112475)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (12892) (0x325c, 12.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110012090) (11.0012090 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2362) (23.62 m/s, 85.03 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     67 70.180303869   CohdaWir_20:1d:4a     Broadcast             ITS      465    CAM(v2)
Frame 67: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:53.645414398 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426713.645414398 seconds
    [Time delta from previous captured frame: 0.180100470 seconds]
    [Time delta from previous displayed frame: 0.180100470 seconds]
    [Time since reference or first frame: 70.180303869 seconds]
    Frame Number: 67
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0615 (1557)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9daf [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x92bd [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 70.180303869 seconds]
        [Time since previous frame: 0.180100470 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 67
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b0107190000…
        MKxIFMsg: 02007b010719000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6407, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6407
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ff49fbffffdaec3070ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1207, TSF=0x0005d4de7030ecda, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1207
            TSF: 0x0005d4de7030ecda
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1010 .... = Sequence number: 266
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575834.728s (1575834728)
            Latitude: 48.7871908 (48°47'13.89"N) (487871908)
            Longitude: 9.2112475 (09°12'40.49"E) (92112475)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (13092) (0x3324, 13.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110011460) (11.0011460 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2286) (22.86 m/s, 82.30 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time           Source              Destination          Protocol Length Info
     68 70.410212344   CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 68: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:53.875322873 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426713.875322873 seconds
    [Time delta from previous captured frame: 0.229908475 seconds]
    [Time delta from previous displayed frame: 0.229908475 seconds]
    [Time since reference or first frame: 70.410212344 seconds]
    Frame Number: 68
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x062c (1580)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e60 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xa082 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 70.410212344 seconds]
        [Time since previous frame: 0.229908475 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 68
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3000d190000…
        MKxIFMsg: 0200b3000d19000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6413, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6413
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff58fafffb7563470ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1448, TSF=0x0005d4de703456b7, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1448
            TSF: 0x0005d4de703456b7
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1011 .... = Sequence number: 267
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575834.728s (1575834728)
                Latitude: 48.7871908 (48°47'13.89"N) (487871908)
                Longitude: 9.2112475 (09°12'40.49"E) (92112475)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (13292) (0x33ec, 13.292 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110010850) (11.0010850 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (2222) (22.22 m/s, 79.99 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source             Destination        Protocol  Length  Info
     69 70.590365509   CohdaWir_20:1d:4a  Broadcast          ITS       265     CAM(v2)
Frame 69: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:54.055476038 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426714.055476038 seconds
    [Time delta from previous captured frame: 0.180153165 seconds]
    [Time delta from previous displayed frame: 0.180153165 seconds]
    [Time since reference or first frame: 70.590365509 seconds]
    Frame Number: 69
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0632 (1586)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e5a [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x2ad6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 70.590365509 seconds]
        [Time since previous frame: 0.180153165 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 69
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -49
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30011190000…
        MKxIFMsg: 0200b3001119000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6417, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6417
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a0ff9eff34ff34ffe8f9ffffd92e3770ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-096, PowerB=-098,
NoiseA=-204, NoiseB=-204, FreqOffset=-1560, TSF=0x0005d4de70372ed9, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -96
            RxPowerB: -98
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1560
            TSF: 0x0005d4de70372ed9
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1100 .... = Sequence number: 268
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575834.728s (1575834728)
            Latitude: 48.7871908 (48°47'13.89"N) (487871908)
            Longitude: 9.2112475 (09°12'40.49"E) (92112475)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (13492) (0x34b4, 13.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110010260) (11.0010260 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (2139) (21.39 m/s, 77.00 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time          Source              Destination          Protocol Length Info
    70 70.790374805   CohdaWir_20:1d:4a    Broadcast            ITS      465    CAM(v2)
Frame 70: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:54.255485334 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426714.255485334 seconds
    [Time delta from previous captured frame: 0.200009296 seconds]
    [Time delta from previous displayed frame: 0.200009296 seconds]
    [Time since reference or first frame: 70.790374805 seconds]
    Frame Number: 70
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0640 (1600)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d84 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x4997 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 70.790374805 seconds]
        [Time since previous frame: 0.200009296 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 70
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b0116190000…
        MKxIFMsg: 02007b011619000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6422, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6422
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff21fbffff21423a70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1247, TSF=0x0005d4de703a4221, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1247
            TSF: 0x0005d4de703a4221
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1101 .... = Sequence number: 269
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575835.728s (1575835728)
                Latitude: 48.7871901 (48°47'13.88"N) (487871901)
                Longitude: 9.2112464 (09°12'40.49"E) (92112464)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (13692) (0x357c, 13.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110009680) (11.0009680 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (2067) (20.67 m/s, 74.41 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                yawRate
                    yawRateValue: straight (0) (0.00 deg/sec)
                    yawRateConfidence: degSec-000-01 (0)
        lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
            basicVehicleContainerLowFrequency
                vehicleRole: default (0)
                exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                    0... .... lowBeamHeadlightsOn: False
                    .0.. .... highBeamHeadlightsOn: False
                    ..0. .... leftTurnSignalOn: False
                    ...0 .... rightTurnSignalOn: False
                    .... 1... daytimeRunningLightsOn: True
                    .... .0.. reverseLightOn: False
                    .... ..0. fogLightOn: False
                    .... ...0 parkingLightsOn: False
                pathHistory: 23 items
                    Item 0
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 1
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 2
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 3
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 4
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 5
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 6
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 7
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 8
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 9
                        PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                                    pathDeltaTime: Unknown (0)
                        Item 21
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 22
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
```

```
                                    pathDeltaTime: Unknown (0)
                        Item 21
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
```

```
No.      Time          Source              Destination           Protocol  Length  Info
    71 71.000203756   CohdaWir_20:1d:4a    Broadcast             ITS       265     CAM(v2)
Frame 71: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:54.465314285 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426714.465314285 seconds
    [Time delta from previous captured frame: 0.209828951 seconds]
    [Time delta from previous displayed frame: 0.209828951 seconds]
    [Time since reference or first frame: 71.000203756 seconds]
    Frame Number: 71
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0653 (1619)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e39 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x029c [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 71.000203756 seconds]
        [Time since previous frame: 0.209828951 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 71
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3001c190000…
        MKxIFMsg: 0200b3001c19000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6428, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6428
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff6afbffff316e3d70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1174, TSF=0x0005d4de703d6e31, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1174
            TSF: 0x0005d4de703d6e31
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1110 .... = Sequence number: 270
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575835.728s (1575835728)
                Latitude: 48.7871901 (48°47'13.88"N) (487871901)
                Longitude: 9.2112464 (09°12'40.49"E) (92112464)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (13892) (0x3644, 13.892 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110009140) (11.0009140 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (1984) (19.84 m/s, 71.42 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
     72 71.200208889    CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 72: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:54.665319418 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426714.665319418 seconds
    [Time delta from previous captured frame: 0.200005133 seconds]
    [Time delta from previous displayed frame: 0.200005133 seconds]
    [Time since reference or first frame: 71.200208889 seconds]
    Frame Number: 72
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0665 (1637)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e27 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xfe80 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 71.200208889 seconds]
        [Time since previous frame: 0.200005133 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 72
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30021190000…
        MKxIFMsg: 0200b3002119000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6433, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6433
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ff9bfaffff4f7d4070ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1381, TSF=0x0005d4de70407d4f, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1381
            TSF: 0x0005d4de70407d4f
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0000 1111 .... = Sequence number: 271
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575835.728s (1575835728)
            Latitude: 48.7871901 (48°47'13.88"N) (487871901)
            Longitude: 9.2112464 (09°12'40.49"E) (92112464)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (14092) (0x370c, 14.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110008610) (11.0008610 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1913) (19.13 m/s, 68.87 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-4) (-0.4 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination           Protocol Length Info
    73 71.400281803   CohdaWir_20:1d:4a   Broadcast             ITS      465    CAM(v2)
Frame 73: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:54.865392332 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426714.865392332 seconds
    [Time delta from previous captured frame: 0.200072914 seconds]
    [Time delta from previous displayed frame: 0.200072914 seconds]
    [Time since reference or first frame: 71.400281803 seconds]
    Frame Number: 73
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0668 (1640)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d5c [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x88cd [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 71.400281803 seconds]
        [Time since previous frame: 0.200072914 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 73
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002007b0126190000…
            MKxIFMsg: 02007b012619000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6438, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6438
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff2eff34ffa9faffff27914370ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-210, NoiseB=-204, FreqOffset=-1367, TSF=0x0005d4de70439127, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -210
                RxNoiseB: -204
                FreqOffset: -1367
                TSF: 0x0005d4de70439127
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0000 .... = Sequence number: 272
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575835.728s (1575835728)
                Latitude: 48.7871901 (48°47'13.88"N) (487871901)
                Longitude: 9.2112464 (09°12'40.49"E) (92112464)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (14292) (0x37d4, 14.292 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110008100) (11.0008100 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (1844) (18.44 m/s, 66.38 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
                        yawRate
                            yawRateValue: straight (0) (0.00 deg/sec)
                            yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                            pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.     Time         Source              Destination          Protocol Length Info
     74 71.590422017   CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 74: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:55.055532546 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426715.055532546 seconds
    [Time delta from previous captured frame: 0.190140214 seconds]
    [Time delta from previous displayed frame: 0.190140214 seconds]
    [Time since reference or first frame: 71.590422017 seconds]
    Frame Number: 74
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0676 (1654)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e16 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xa716 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 71.590422017 seconds]
        [Time since previous frame: 0.190140214 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 74
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b3002a190000…
        MKxIFMsg: 0200b3002a19000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6442, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6442
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ffd7fafffff13774670ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1321, TSF=0x0005d4de70467713, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1321
            TSF: 0x0005d4de70467713
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0001 .... = Sequence number: 273
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575835.728s (1575835728)
            Latitude: 48.7871901 (48°47'13.88"N) (487871901)
            Longitude: 9.2112464 (09°12'40.49"E) (92112464)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (14492) (0x389c, 14.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110007610) (11.0007610 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1771) (17.71 m/s, 63.76 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source                Destination           Protocol  Length  Info
    75 71.790367917    CohdaWir_20:1d:4a      Broadcast             ITS       265     CAM(v2)
Frame 75: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:55.255478446 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426715.255478446 seconds
    [Time delta from previous captured frame: 0.199945900 seconds]
    [Time delta from previous displayed frame: 0.199945900 seconds]
    [Time since reference or first frame: 71.790367917 seconds]
    Frame Number: 75
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0686 (1670)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9e06 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x15d7 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 71.790367917 seconds]
        [Time since previous frame: 0.199945900 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 75
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3002f190000…
            MKxIFMsg: 0200b3002f19000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6447, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6447
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff4efbffff8a8b4970ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1202, TSF=0x0005d4de70498b8a, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1202
                TSF: 0x0005d4de70498b8a
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0010 .... = Sequence number: 274
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575836.728s (1575836728)
                Latitude: 48.7871891 (48°47'13.88"N) (487871891)
                Longitude: 9.2112455 (09°12'40.48"E) (92112455)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (14692) (0x3964, 14.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110007140) (11.0007140 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (1698) (16.98 m/s, 61.13 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time          Source             Destination        Protocol  Length  Info
    76 72.000273568   CohdaWir_20:1d:4a   Broadcast          ITS       465     CAM(v2)
Frame 76: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:55.465384097 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426715.465384097 seconds
    [Time delta from previous captured frame: 0.209905651 seconds]
    [Time delta from previous displayed frame: 0.209905651 seconds]
    [Time since reference or first frame: 72.000273568 seconds]
    Frame Number: 76
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0687 (1671)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d3d [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xf197 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 72.000273568 seconds]
        [Time since previous frame: 0.209905651 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 76
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002007b0135190000…
            MKxIFMsg: 02007b013519000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6453, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6453
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff55fbffff3eb04c70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1195, TSF=0x0005d4de704cb03e, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1195
                TSF: 0x0005d4de704cb03e
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0011 .... = Sequence number: 275
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575836.728s (1575836728)
            Latitude: 48.7871891 (48°47'13.88"N) (487871891)
            Longitude: 9.2112455 (09°12'40.48"E) (92112455)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (14892) (0x3a2c, 14.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110006690) (11.0006690 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1629) (16.29 m/s, 58.64 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                        yawRate
                            yawRateValue: straight (0) (0.00 deg/sec)
                            yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
    77 72.230192169    CohdaWir_20:1d:4a    Broadcast             ITS      265    CAM(v2)
Frame 77: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:55.695302698 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426715.695302698 seconds
    [Time delta from previous captured frame: 0.229918601 seconds]
    [Time delta from previous displayed frame: 0.229918601 seconds]
    [Time since reference or first frame: 72.230192169 seconds]
    Frame Number: 77
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0699 (1689)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9df3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x61b4 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 72.230192169 seconds]
        [Time since previous frame: 0.229918601 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 77
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3003a190000…
            MKxIFMsg: 0200b3003a19000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6458, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6458
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff3afff8faffff681d5070ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1288, TSF=0x0005d4de70501d68, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -198
                FreqOffset: -1288
                TSF: 0x0005d4de70501d68
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0100 .... = Sequence number: 276
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575836.728s (1575836728)
            Latitude: 48.7871891 (48°47'13.88"N) (487871891)
            Longitude: 9.2112455 (09°12'40.48"E) (92112455)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (15092) (0x3af4, 15.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110006260) (11.0006260 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1555) (15.55 m/s, 55.98 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source             Destination         Protocol  Length Info
     78 72.400229700    CohdaWir_20:1d:4a   Broadcast           ITS       265    CAM(v2)
Frame 78: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:55.865340229 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426715.865340229 seconds
    [Time delta from previous captured frame: 0.170037531 seconds]
    [Time delta from previous displayed frame: 0.170037531 seconds]
    [Time since reference or first frame: 72.400229700 seconds]
    Frame Number: 78
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x06a1 (1697)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9deb [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x1854 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 72.400229700 seconds]
        [Time since previous frame: 0.170037531 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 78
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000040000004e5480038000200b3003f190000…
        MKxIFMsg: 0200b3003f19000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6463, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6463
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff83fafffffa0d45270ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1405, TSF=0x0005d4de7052d4a0, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1405
            TSF: 0x0005d4de7052d4a0
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0101 .... = Sequence number: 277
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575836.728s (1575836728)
            Latitude: 48.7871891 (48°47'13.88"N) (487871891)
            Longitude: 9.2112455 (09°12'40.48"E) (92112455)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (15292) (0x3bbc, 15.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110005860) (11.0005860 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1480) (14.80 m/s, 53.28 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
     79 72.600270906   CohdaWir_20:1d:4a   Broadcast            ITS      465    CAM(v2)
Frame 79: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:56.065381435 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426716.065381435 seconds
    [Time delta from previous captured frame: 0.200041206 seconds]
    [Time delta from previous displayed frame: 0.200041206 seconds]
    [Time since reference or first frame: 72.600270906 seconds]
    Frame Number: 79
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x06b1 (1713)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d13 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xd29e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 72.600270906 seconds]
        [Time since previous frame: 0.200041206 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 79
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000004800020000400000004e54800380002007b0144190000…
        MKxIFMsg: 02007b014419000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6468, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6468
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff3affd6fbffff4bdc5570ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1066, TSF=0x0005d4de7055dc4b, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -198
            FreqOffset: -1066
            TSF: 0x0005d4de7055dc4b
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0110 .... = Sequence number: 278
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575836.728s (1575836728)
            Latitude: 48.7871891 (48°47'13.88"N) (487871891)
            Longitude: 9.2112455 (09°12'40.48"E) (92112455)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (15492) (0x3c84, 15.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110005460) (11.0005460 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1416) (14.16 m/s, 50.98 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                yawRate
                    yawRateValue: straight (0) (0.00 deg/sec)
                    yawRateConfidence: degSec-000-01 (0)
        lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
            basicVehicleContainerLowFrequency
                vehicleRole: default (0)
                exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                    0... .... lowBeamHeadlightsOn: False
                    .0.. .... highBeamHeadlightsOn: False
                    ..0. .... leftTurnSignalOn: False
                    ...0 .... rightTurnSignalOn: False
                    .... 1... daytimeRunningLightsOn: True
                    .... .0.. reverseLightOn: False
                    .... ..0. fogLightOn: False
                    .... ...0 parkingLightsOn: False
                pathHistory: 23 items
                    Item 0
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 1
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 2
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 3
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 4
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 5
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 6
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 7
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 8
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 9
                        PathPoint
```

```
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 10
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 11
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 12
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 13
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 14
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 15
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 16
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 17
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 18
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 19
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 20
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                  Item 21
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
                  Item 22
                      PathPoint
                          pathPosition
                              deltaLatitude: unavailable (131072)
                              deltaLongitude: unavailable (131072)
                              deltaAltitude: unavailable (12800)
                          pathDeltaTime: Unknown (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
    80 72.790311954    CohdaWir_20:1d:4a    Broadcast           ITS      265    CAM(v2)
Frame 80: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:56.255422483 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426716.255422483 seconds
    [Time delta from previous captured frame: 0.190041048 seconds]
    [Time delta from previous displayed frame: 0.190041048 seconds]
    [Time since reference or first frame: 72.790311954 seconds]
    Frame Number: 80
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x06b9 (1721)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9dd3 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x2b9d [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 72.790311954 seconds]
        [Time since previous frame: 0.190041048 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 80
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30048190000…
            MKxIFMsg: 0200b3004819000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6472, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6472
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff12fbffffacc55870ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1262, TSF=0x0005d4de7058c5ac, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1262
                TSF: 0x0005d4de7058c5ac
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 0111 .... = Sequence number: 279
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575837.728s (1575837728)
                Latitude: 48.7871884 (48°47'13.88"N) (487871884)
                Longitude: 9.2112446 (09°12'40.48"E) (92112446)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (15692) (0x3d4c, 15.692 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110005090) (11.0005090 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (1341) (13.41 m/s, 48.28 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination         Protocol Length Info
    81 73.000185232   CohdaWir_20:1d:4a    Broadcast           ITS      265    CAM(v2)
Frame 81: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:56.465295761 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426716.465295761 seconds
    [Time delta from previous captured frame: 0.209873278 seconds]
    [Time delta from previous displayed frame: 0.209873278 seconds]
    [Time since reference or first frame: 73.000185232 seconds]
    Frame Number: 81
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x06c8 (1736)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9dc4 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x09d0 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 73.000185232 seconds]
        [Time since previous frame: 0.209873278 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 81
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b3004e190000…
        MKxIFMsg: 0200b3004e19000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6478, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6478
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff2efff1fafff11e05b70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-210, FreqOffset=-1295, TSF=0x0005d4de705be011, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -210
            FreqOffset: -1295
            TSF: 0x0005d4de705be011
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1000 .... = Sequence number: 280
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575837.728s (1575837728)
            Latitude: 48.7871884 (48°47'13.88"N) (487871884)
            Longitude: 9.2112446 (09°12'40.48"E) (92112446)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (15892) (0x3e14, 15.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110004740) (11.0004740 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1277) (12.77 m/s, 45.97 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source              Destination           Protocol Length Info
     82 73.200346498   CohdaWir_20:1d:4a   Broadcast             ITS      465    CAM(v2)
Frame 82: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:56.665457027 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426716.665457027 seconds
    [Time delta from previous captured frame: 0.200161266 seconds]
    [Time delta from previous displayed frame: 0.200161266 seconds]
    [Time since reference or first frame: 73.200346498 seconds]
    Frame Number: 82
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x06d8 (1752)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9cec [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x1366 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 73.200346498 seconds]
        [Time since previous frame: 0.200161266 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 82
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000040000004e54800380002007b0153190000…
            MKxIFMsg: 02007b0153190000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6483, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6483
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff0bfbffff46085f70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1269, TSF=0x0005d4de705f0846, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1269
                TSF: 0x0005d4de705f0846
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1001 .... = Sequence number: 281
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575837.728s (1575837728)
            Latitude: 48.7871884 (48°47'13.88"N) (487871884)
            Longitude: 9.2112446 (09°12'40.48"E) (92112446)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (16092) (0x3edc, 16.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110004410) (11.0004410 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1205) (12.05 m/s, 43.38 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                              pathDeltaTime: Unknown (0)
                 Item 21
                     PathPoint
                         pathPosition
                             deltaLatitude: unavailable (131072)
                             deltaLongitude: unavailable (131072)
                             deltaAltitude: unavailable (12800)
                         pathDeltaTime: Unknown (0)
                 Item 22
                     PathPoint
                         pathPosition
                             deltaLatitude: unavailable (131072)
                             deltaLongitude: unavailable (131072)
                             deltaAltitude: unavailable (12800)
                         pathDeltaTime: Unknown (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     83 73.400266924   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 83: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:56.865377453 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426716.865377453 seconds
    [Time delta from previous captured frame: 0.199920426 seconds]
    [Time delta from previous displayed frame: 0.199920426 seconds]
    [Time since reference or first frame: 73.400266924 seconds]
    Frame Number: 83
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x06eb (1771)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9da1 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xc9c2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 73.400266924 seconds]
        [Time since previous frame: 0.199920426 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 83
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e5480038000200b30058190000…
            MKxIFMsg: 0200b3005819000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6488, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6488
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff0bfbffff59046270ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1269, TSF=0x0005d4de70620459, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1269
                TSF: 0x0005d4de70620459
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1010 .... = Sequence number: 282
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575837.728s (1575837728)
            Latitude: 48.7871884 (48°47'13.88"N) (487871884)
            Longitude: 9.2112446 (09°12'40.48"E) (92112446)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (16292) (0x3fa4, 16.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110004090) (11.0004090 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1145) (11.45 m/s, 41.22 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time            Source                Destination           Protocol  Length  Info
      84 73.610216271    CohdaWir_20:1d:4a     Broadcast             ITS       265     CAM(v2)
Frame 84: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:57.075326800 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426717.075326800 seconds
    [Time delta from previous captured frame: 0.209949347 seconds]
    [Time delta from previous displayed frame: 0.209949347 seconds]
    [Time since reference or first frame: 73.610216271 seconds]
    Frame Number: 84
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x06fd (1789)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d8f [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x5250 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 73.610216271 seconds]
        [Time since previous frame: 0.209949347 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 84
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
          Option Length: 1
          Rate: 6 Mbit/s (12)
      Frame check sequence
          Option Tag: Frame check sequence (17)
          Option Length: 1
          FCS: Frame is valid
      Cohda MKx Rx (LMAC) header
          Option Tag: Cohda MKx Rx (LMAC) header (242)
          Option Length: 72
      Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b3005d190000…
          MKxIFMsg: 0200b3005d19000000000000
          MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6493, Ref=0, Reserved=0, Ret=0
              Type: 2
              Len: 179
              Seq: 6493
              Ref: 0
              Reserved: 0
              Ret: 0
          MKxRxPacketData: 00000a01a2ffa0ff34ff2efffdfaffff1c406570ded40500…
          MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
  NoiseA=-204, NoiseB=-210, FreqOffset=-1283, TSF=0x0005d4de7065401c, FrameLength=0123, Freq=5900
              RadioID: 0
              ChannelID: 0
              MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
              FCS: 0x01
              RxPowerA: -94
              RxPowerB: -96
              RxNoiseA: -204
              RxNoiseB: -210
              FreqOffset: -1283
              TSF: 0x0005d4de7065401c
              FrameLength: 123
              Freq: 5900
      End
          Option Tag: End (1)
  IEEE 802.11 QoS Data, Flags: ........
      Type/Subtype: QoS Data (0x0028)
      Frame Control Field: 0x8800
          .... ..00 = Version: 0
          .... 10.. = Type: Data frame (2)
          1000 .... = Subtype: 8
          Flags: 0x00
              .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
              .... .0.. = More Fragments: This is the last fragment
              .... 0... = Retry: Frame is not being retransmitted
              ...0 .... = PWR MGT: STA will stay up
              ..0. .... = More Data: No data buffered
              .0.. .... = Protected flag: Data is not protected
              0... .... = Order flag: Not strictly ordered
      .000 0000 0000 0000 = Duration: 0 microseconds
      Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
      Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
      Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
      BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
      .... .... .... 0000 = Fragment number: 0
      0001 0001 1011 .... = Sequence number: 283
      Qos Control: 0x0023
          .... .... .... 0011 = TID: 3
          [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
          .... .... ...0 .... = EOSP: Service period
          .... .... .01. .... = Ack Policy: No Ack (0x1)
          .... .... 0... .... = Payload Type: MSDU
          0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
  Logical-Link Control (LPD)
      DSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = IG Bit: Individual
      SSAP: SNAP (0xaa)
          1010 101. = SAP: SNAP
          .... ...0 = CR Bit: Command
      Control field: U, func=UI (0x03)
          000. 00.. = Command: Unnumbered Information (0x00)
          .... ..11 = Frame type: Unnumbered frame (0x3)
      Organization Code: 00:00:00 (Officially Xerox, but
      Type: ETSI GN (0x8947)
  GeoNetworking_CW: Common (TSB Single Hop)
      Basic Header
          0001 .... = Version: 1
          .... 0001 = Next Header: Common (1)
          Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575837.728s (1575837728)
            Latitude: 48.7871884 (48°47'13.88"N) (487871884)
            Longitude: 9.2112446 (09°12'40.48"E) (92112446)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (16492) (0x406c, 16.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110003790) (11.0003790 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (1074) (10.74 m/s, 38.66 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source                Destination           Protocol Length Info
     85 73.790242241    CohdaWir_20:1d:4a     Broadcast             ITS      465    CAM(v2)
Frame 85: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:57.255352770 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426717.255352770 seconds
    [Time delta from previous captured frame: 0.180025970 seconds]
    [Time delta from previous displayed frame: 0.180025970 seconds]
    [Time since reference or first frame: 73.790242241 seconds]
    Frame Number: 85
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x070c (1804)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9cb8 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xd853 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 73.790242241 seconds]
        [Time since previous frame: 0.180025970 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 85
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b0161190000…
        MKxIFMsg: 02007b016119000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6497, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6497
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a4ffa0ff34ff34ffb8fafffffd30d6870ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1352, TSF=0x0005d4de70680dd3, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -92
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1352
            TSF: 0x0005d4de70680dd3
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1100 .... = Sequence number: 284
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575838.728s (1575838728)
                Latitude: 48.7871874 (48°47'13.87"N) (487871874)
                Longitude: 9.2112432 (09°12'40.48"E) (92112432)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (16692) (0x4134, 16.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110003510) (11.0003510 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (1008) (10.08 m/s, 36.29 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
          lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
              basicVehicleContainerLowFrequency
                  vehicleRole: default (0)
                  exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                      0... .... lowBeamHeadlightsOn: False
                      .0.. .... highBeamHeadlightsOn: False
                      ..0. .... leftTurnSignalOn: False
                      ...0 .... rightTurnSignalOn: False
                      .... 1... daytimeRunningLightsOn: True
                      .... .0.. reverseLightOn: False
                      .... ..0. fogLightOn: False
                      .... ...0 parkingLightsOn: False
                  pathHistory: 23 items
                      Item 0
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 1
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 2
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 3
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 4
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 5
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 6
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 7
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 8
                          PathPoint
                              pathPosition
                                  deltaLatitude: unavailable (131072)
                                  deltaLongitude: unavailable (131072)
                                  deltaAltitude: unavailable (12800)
                              pathDeltaTime: Unknown (0)
                      Item 9
                          PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time           Source              Destination         Protocol Length Info
     86 74.000168960   CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 86: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:57.465279489 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426717.465279489 seconds
    [Time delta from previous captured frame: 0.209926719 seconds]
    [Time delta from previous displayed frame: 0.209926719 seconds]
    [Time since reference or first frame: 74.000168960 seconds]
    Frame Number: 86
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0714 (1812)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d78 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xd9a6 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 74.000168960 seconds]
        [Time since previous frame: 0.209926719 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 86
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30067190000…
        MKxIFMsg: 0200b3006719000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6503, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6503
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ff7afaffff4c2a6b70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1414, TSF=0x0005d4de706b2a4c, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1414
            TSF: 0x0005d4de706b2a4c
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1101 .... = Sequence number: 285
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575838.728s (1575838728)
            Latitude: 48.7871874 (48°47'13.87"N) (487871874)
            Longitude: 9.2112432 (09°12'40.48"E) (92112432)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (16892) (0x41fc, 16.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110003250) (11.0003250 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (951) (9.51 m/s, 34.24 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source              Destination         Protocol  Length  Info
    87 74.180203099  CohdaWir_20:1d:4a   Broadcast           ITS       265     CAM(v2)
Frame 87: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:57.645313628 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426717.645313628 seconds
    [Time delta from previous captured frame: 0.180034139 seconds]
    [Time delta from previous displayed frame: 0.180034139 seconds]
    [Time since reference or first frame: 74.180203099 seconds]
    Frame Number: 87
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x071b (1819)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d71 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x6cc2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 74.180203099 seconds]
        [Time since previous frame: 0.180034139 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 87
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3006b190000…
            MKxIFMsg: 0200b3006b19000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6507, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6507
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff35fafffff07f96d70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1483, TSF=0x0005d4de706df907, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1483
                TSF: 0x0005d4de706df907
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1110 .... = Sequence number: 286
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575838.728s (1575838728)
            Latitude: 48.7871874 (48°47'13.87"N) (487871874)
            Longitude: 9.2112432 (09°12'40.48"E) (92112432)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (17092) (0x42c4, 17.092 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000140) (49.0000140 deg)
                          longitude: Unknown (110003000) (11.0003000 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (885) (8.85 m/s, 31.86 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time            Source               Destination          Protocol Length Info
     88 74.430205467    CohdaWir_20:1d:4a    Broadcast            ITS      465    CAM(v2)
Frame 88: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:57.895315996 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426717.895315996 seconds
    [Time delta from previous captured frame: 0.250002368 seconds]
    [Time delta from previous displayed frame: 0.250002368 seconds]
    [Time since reference or first frame: 74.430205467 seconds]
    Frame Number: 88
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0727 (1831)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c9d [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x57c2 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 74.430205467 seconds]
        [Time since previous frame: 0.250002368 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 88
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b0171190000…
            MKxIFMsg: 02007b017119000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6513, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6513
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff32fafffffbbc7170ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1486, TSF=0x0005d4de7071bcfb, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1486
                TSF: 0x0005d4de7071bcfb
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0001 1111 .... = Sequence number: 287
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575838.728s (1575838728)
            Latitude: 48.7871874 (48°47'13.87"N) (487871874)
            Longitude: 9.2112432 (09°12'40.48"E) (92112432)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (17292) (0x438c, 17.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110002770) (11.0002770 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (827) (8.27 m/s, 29.77 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                   yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     89 74.600223537   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 89: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:58.065334066 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426718.065334066 seconds
    [Time delta from previous captured frame: 0.170018070 seconds]
    [Time delta from previous displayed frame: 0.170018070 seconds]
    [Time since reference or first frame: 74.600223537 seconds]
    Frame Number: 89
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0738 (1848)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d54 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xc9d5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 74.600223537 seconds]
        [Time since previous frame: 0.170018070 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 89
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30076190000…
        MKxIFMsg: 0200b3007619000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6518, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6518
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff98fbffffaf4f7470ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1128, TSF=0x0005d4de70744faf, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1128
            TSF: 0x0005d4de70744faf
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0000 .... = Sequence number: 288
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575838.728s (1575838728)
            Latitude: 48.7871874 (48°47'13.87"N) (487871874)
            Longitude: 9.2112432 (09°12'40.48"E) (92112432)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (17492) (0x4454, 17.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110002560) (11.0002560 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (766) (7.66 m/s, 27.58 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source               Destination          Protocol Length Info
    90 74.800180537   CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 90: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:58.265291066 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426718.265291066 seconds
    [Time delta from previous captured frame: 0.199957000 seconds]
    [Time delta from previous displayed frame: 0.199957000 seconds]
    [Time since reference or first frame: 74.800180537 seconds]
    Frame Number: 90
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0742 (1858)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d4a [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x824e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 74.800180537 seconds]
        [Time since previous frame: 0.199957000 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 90
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b3007b190000…
            MKxIFMsg: 0200b3007b19000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6523, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6523
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3aff4efbffff265b7770ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1202, TSF=0x0005d4de70775b26, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1202
                TSF: 0x0005d4de70775b26
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0001 .... = Sequence number: 289
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575839.728s (1575839728)
            Latitude: 48.7871861 (48°47'13.87"N) (487871861)
            Longitude: 9.2112424 (09°12'40.47"E) (92112424)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (17692) (0x451c, 17.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110002360) (11.0002360 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (709) (7.09 m/s, 25.52 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source                Destination          Protocol Length Info
    91 75.000225476   CohdaWir_20:1d:4a      Broadcast            ITS      465    CAM(v2)
Frame 91: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:58.465336005 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426718.465336005 seconds
    [Time delta from previous captured frame: 0.200044939 seconds]
    [Time delta from previous displayed frame: 0.200044939 seconds]
    [Time since reference or first frame: 75.000225476 seconds]
    Frame Number: 91
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0744 (1860)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c80 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xb90c [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 75.000225476 seconds]
        [Time since previous frame: 0.200044939 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 91
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b0180190000…
        MKxIFMsg: 02007b018019000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6528, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 379
            Seq: 6528
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff34ffbafaffff15787a70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1350, TSF=0x0005d4de707a7815, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -204
            FreqOffset: -1350
            TSF: 0x0005d4de707a7815
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0010 .... = Sequence number: 290
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575839.728s (1575839728)
            Latitude: 48.7871861 (48°47'13.87"N) (487871861)
            Longitude: 9.2112424 (09°12'40.47"E) (92112424)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (17892) (0x45e4, 17.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110002180) (11.0002180 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (651) (6.51 m/s, 23.44 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                yawRate
                    yawRateValue: straight (0) (0.00 deg/sec)
                    yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.      Time          Source               Destination          Protocol  Length Info
      92 75.200184672   CohdaWir_20:1d:4a    Broadcast            ITS       265    CAM(v2)
Frame 92: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:58.665295201 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426718.665295201 seconds
    [Time delta from previous captured frame: 0.199959196 seconds]
    [Time delta from previous displayed frame: 0.199959196 seconds]
    [Time since reference or first frame: 75.200184672 seconds]
    Frame Number: 92
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0745 (1861)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d47 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x0444 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 75.200184672 seconds]
        [Time since previous frame: 0.199959196 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 92
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b30085190000…
        MKxIFMsg: 0200b30085190000000000000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6533, Ref=0, Reserved=0, Ret=0
            Type: 2
            Len: 179
            Seq: 6533
            Ref: 0
            Reserved: 0
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff2effd7fafffff486f7d70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-210, FreqOffset=-1321, TSF=0x0005d4de707d6f48, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -210
            FreqOffset: -1321
            TSF: 0x0005d4de707d6f48
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0011 .... = Sequence number: 291
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575839.728s (1575839728)
                Latitude: 48.7871861 (48°47'13.87"N) (487871861)
                Longitude: 9.2112424 (09°12'40.47"E) (92112424)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (18092) (0x46ac, 18.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110002020) (11.0002020 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (594) (5.94 m/s, 21.38 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source                Destination           Protocol Length Info
      93 75.400186151   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 93: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:58.865296680 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426718.865296680 seconds
    [Time delta from previous captured frame: 0.200001479 seconds]
    [Time delta from previous displayed frame: 0.200001479 seconds]
    [Time since reference or first frame: 75.400186151 seconds]
    Frame Number: 93
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x074a (1866)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d42 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x153a [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 75.400186151 seconds]
        [Time since previous frame: 0.200001479 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 93
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b3008a190000…
            MKxIFMsg: 0200b3008a19000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6538, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6538
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff2eff34ff67fafffffa1938070ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-210, NoiseB=-204, FreqOffset=-1433, TSF=0x0005d4de708093a1, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -210
                RxNoiseB: -204
                FreqOffset: -1433
                TSF: 0x0005d4de708093a1
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0100 .... = Sequence number: 292
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575839.728s (1575839728)
            Latitude: 48.7871861 (48°47'13.87"N) (487871861)
            Longitude: 9.2112424 (09°12'40.47"E) (92112424)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (18292) (0x4774, 18.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001860) (11.0001860 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (545) (5.45 m/s, 19.62 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: pointOneMeterPerSecSquaredBackward (-1) (-0.1 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source            Destination         Protocol Length Info
    94 75.610326541  CohdaWir_20:1d:4a  Broadcast           ITS      465    CAM(v2)
Frame 94: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:59.075437070 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426719.075437070 seconds
    [Time delta from previous captured frame: 0.210140390 seconds]
    [Time delta from previous displayed frame: 0.210140390 seconds]
    [Time since reference or first frame: 75.610326541 seconds]
    Frame Number: 94
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x075c (1884)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c68 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x2ed1 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 75.610326541 seconds]
        [Time since previous frame: 0.210140390 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 94
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
                Option Length: 1
                Rate: 6 Mbit/s (12)
            Frame check sequence
                Option Tag: Frame check sequence (17)
                Option Length: 1
                FCS: Frame is valid
            Cohda MKx Rx (LMAC) header
                Option Tag: Cohda MKx Rx (LMAC) header (242)
                Option Length: 72
            Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b018f190000…
                MKxIFMsg: 02007b018f19000000000000
                MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6543, Ref=0, Reserved=0, Ret=0
                    Type: 2
                    Len: 379
                    Seq: 6543
                    Ref: 0
                    Reserved: 0
                    Ret: 0
                MKxRxPacketData: 00000a01a2ffa0ff34ff3affe5faffff8cbc8370ded40500…
                MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1307, TSF=0x0005d4de7083bc8c, FrameLength=0323, Freq=5900
                    RadioID: 0
                    ChannelID: 0
                    MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                    FCS: 0x01
                    RxPowerA: -94
                    RxPowerB: -96
                    RxNoiseA: -204
                    RxNoiseB: -198
                    FreqOffset: -1307
                    TSF: 0x0005d4de7083bc8c
                    FrameLength: 323
                    Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0101 .... = Sequence number: 293
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575839.728s (1575839728)
            Latitude: 48.7871861 (48°47'13.87"N) (487871861)
            Longitude: 9.2112424 (09°12'40.47"E) (92112424)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (18492) (0x483c, 18.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001730) (11.0001730 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (494) (4.94 m/s, 17.78 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                            pathDeltaTime: Unknown (0)
                Item 21
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 22
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
    95 75.800206232   CohdaWir_20:1d:4a      Broadcast             ITS      265    CAM(v2)
Frame 95: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:59.265316761 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426719.265316761 seconds
    [Time delta from previous captured frame: 0.189879691 seconds]
    [Time delta from previous displayed frame: 0.189879691 seconds]
    [Time since reference or first frame: 75.800206232 seconds]
    Frame Number: 95
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x076d (1901)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d1f [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x809c [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 75.800206232 seconds]
        [Time since previous frame: 0.189879691 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 95
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30094190000…
            MKxIFMsg: 0200b3009419000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6548, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6548
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff19fbffffc0968670ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1255, TSF=0x0005d4de708696c0, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1255
                TSF: 0x0005d4de708696c0
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0110 .... = Sequence number: 294
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575840.728s (1575840728)
            Latitude: 48.7871848 (48°47'13.87"N) (487871848)
            Longitude: 9.2112415 (09°12'40.47"E) (92112415)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (18692) (0x4904, 18.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001600) (11.0001600 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (447) (4.47 m/s, 16.09 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time         Source               Destination          Protocol Length Info
     96 76.000247743   CohdaWir_20:1d:4a    Broadcast            ITS      265    CAM(v2)
Frame 96: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:59.465358272 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426719.465358272 seconds
    [Time delta from previous captured frame: 0.200041511 seconds]
    [Time delta from previous displayed frame: 0.200041511 seconds]
    [Time since reference or first frame: 76.000247743 seconds]
    Frame Number: 96
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0774 (1908)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d18 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x89cc [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 76.000247743 seconds]
        [Time since previous frame: 0.200041511 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 96
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b30099190000…
            MKxIFMsg: 0200b3009919000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6553, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 179
                Seq: 6553
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3aff12fbffff51af8970ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1262, TSF=0x0005d4de7089af51, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1262
                TSF: 0x0005d4de7089af51
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 0111 .... = Sequence number: 295
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575840.728s (1575840728)
                Latitude: 48.7871848 (48°47'13.87"N) (487871848)
                Longitude: 9.2112415 (09°12'40.47"E) (92112415)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (18892) (0x49cc, 18.892 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110001490) (11.0001490 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (397) (3.97 m/s, 14.29 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source                Destination           Protocol  Length  Info
    97 76.200263187   CohdaWir_20:1d:4a     Broadcast             ITS       465     CAM(v2)
Frame 97: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:59.665373716 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426719.665373716 seconds
    [Time delta from previous captured frame: 0.200015444 seconds]
    [Time delta from previous displayed frame: 0.200015444 seconds]
    [Time since reference or first frame: 76.200263187 seconds]
    Frame Number: 97
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x0779 (1913)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c4b [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xad69 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 76.200263187 seconds]
        [Time since previous frame: 0.200015444 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 97
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
              Option Length: 1
              Rate: 6 Mbit/s (12)
         Frame check sequence
              Option Tag: Frame check sequence (17)
              Option Length: 1
              FCS: Frame is valid
         Cohda MKx Rx (LMAC) header
              Option Tag: Cohda MKx Rx (LMAC) header (242)
              Option Length: 72
         Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b019e190000…
              MKxIFMsg: 02007b019e19000000000000
              MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6558, Ref=0, Reserved=0, Ret=0
                   Type: 2
                   Len: 379
                   Seq: 6558
                   Ref: 0
                   Reserved: 0
                   Ret: 0
              MKxRxPacketData: 00000a01a2ffa0ff34ff34ffc1fafffff16d58c70ded40500…
              MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1343, TSF=0x0005d4de708cd516, FrameLength=0323, Freq=5900
                   RadioID: 0
                   ChannelID: 0
                   MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                   FCS: 0x01
                   RxPowerA: -94
                   RxPowerB: -96
                   RxNoiseA: -204
                   RxNoiseB: -204
                   FreqOffset: -1343
                   TSF: 0x0005d4de708cd516
                   FrameLength: 323
                   Freq: 5900
         End
              Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
         .... ..00 = Version: 0
         .... 10.. = Type: Data frame (2)
         1000 .... = Subtype: 8
         Flags: 0x00
              .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
              .... .0.. = More Fragments: This is the last fragment
              .... 0... = Retry: Frame is not being retransmitted
              ...0 .... = PWR MGT: STA will stay up
              ..0. .... = More Data: No data buffered
              .0.. .... = Protected flag: Data is not protected
              0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1000 .... = Sequence number: 296
    Qos Control: 0x0023
         .... .... .... 0011 = TID: 3
         [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
         .... .... ...0 .... = EOSP: Service period
         .... .... .01. .... = Ack Policy: No Ack (0x1)
         .... .... 0... .... = Payload Type: MSDU
         0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
         1010 101. = SAP: SNAP
         .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
         1010 101. = SAP: SNAP
         .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
         000. 00.. = Command: Unnumbered Information (0x00)
         .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
         0001 .... = Version: 1
         .... 0001 = Next Header: Common (1)
         Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575840.728s (1575840728)
            Latitude: 48.7871848 (48°47'13.87"N) (487871848)
            Longitude: 9.2112415 (09°12'40.47"E) (92112415)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (19092) (0x4a94, 19.092 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001390) (11.0001390 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (362) (3.62 m/s, 13.03 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: pointOneMeterPerSecSquaredBackward (-1) (-0.1 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                        yawRate
                            yawRateValue: straight (0) (0.00 deg/sec)
                            yawRateConfidence: degSec-000-01 (0)
                lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                    basicVehicleContainerLowFrequency
                        vehicleRole: default (0)
                        exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                            0... .... lowBeamHeadlightsOn: False
                            .0.. .... highBeamHeadlightsOn: False
                            ..0. .... leftTurnSignalOn: False
                            ...0 .... rightTurnSignalOn: False
                            .... 1... daytimeRunningLightsOn: True
                            .... .0.. reverseLightOn: False
                            .... ..0. fogLightOn: False
                            .... ...0 parkingLightsOn: False
                        pathHistory: 23 items
                            Item 0
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 1
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 2
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 3
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 4
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 5
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 6
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 7
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 8
                                PathPoint
                                    pathPosition
                                        deltaLatitude: unavailable (131072)
                                        deltaLongitude: unavailable (131072)
                                        deltaAltitude: unavailable (12800)
                                    pathDeltaTime: Unknown (0)
                            Item 9
                                PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                          pathDeltaTime: Unknown (0)
            Item 21
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 22
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
```

```
No.     Time          Source              Destination           Protocol Length Info
     98 76.400203670   CohdaWir_20:1d:4a   Broadcast             ITS      265    CAM(v2)
Frame 98: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:51:59.865314199 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426719.865314199 seconds
    [Time delta from previous captured frame: 0.199940483 seconds]
    [Time delta from previous displayed frame: 0.199940483 seconds]
    [Time since reference or first frame: 76.400203670 seconds]
    Frame Number: 98
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x077a (1914)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d12 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xc9ae [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 76.400203670 seconds]
        [Time since previous frame: 0.199940483 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 98
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
                Option Length: 1
                Rate: 6 Mbit/s (12)
        Frame check sequence
                Option Tag: Frame check sequence (17)
                Option Length: 1
                FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
                Option Tag: Cohda MKx Rx (LMAC) header (242)
                Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b300a3190000…
                MKxIFMsg: 0200b300a319000000000000
                MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6563, Ref=0, Reserved=0, Ret=0
                    Type: 2
                    Len: 179
                    Seq: 6563
                    Ref: 0
                    Reserved: 0
                    Ret: 0
                MKxRxPacketData: 00000a01a2ffa0ff34ff34ffaefaffff93be8f70ded40500…
                MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1362, TSF=0x0005d4de708fbe93, FrameLength=0123, Freq=5900
                    RadioID: 0
                    ChannelID: 0
                    MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                    FCS: 0x01
                    RxPowerA: -94
                    RxPowerB: -96
                    RxNoiseA: -204
                    RxNoiseB: -204
                    FreqOffset: -1362
                    TSF: 0x0005d4de708fbe93
                    FrameLength: 123
                    Freq: 5900
        End
                Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
        Type/Subtype: QoS Data (0x0028)
        Frame Control Field: 0x8800
                .... ..00 = Version: 0
                .... 10.. = Type: Data frame (2)
                1000 .... = Subtype: 8
                Flags: 0x00
                        .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
                        .... .0.. = More Fragments: This is the last fragment
                        .... 0... = Retry: Frame is not being retransmitted
                        ...0 .... = PWR MGT: STA will stay up
                        ..0. .... = More Data: No data buffered
                        .0.. .... = Protected flag: Data is not protected
                        0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
        Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
        Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
        Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
        .... .... .... 0000 = Fragment number: 0
        0001 0010 1001 .... = Sequence number: 297
        Qos Control: 0x0023
                .... .... .... 0011 = TID: 3
                [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
                .... .... ...0 .... = EOSP: Service period
                .... .... .01. .... = Ack Policy: No Ack (0x1)
                .... .... 0... .... = Payload Type: MSDU
                0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
                1010 101. = SAP: SNAP
                .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
                1010 101. = SAP: SNAP
                .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
                000. 00.. = Command: Unnumbered Information (0x00)
                .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
                0001 .... = Version: 1
                .... 0001 = Next Header: Common (1)
                Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575840.728s (1575840728)
            Latitude: 48.7871848 (48°47'13.87"N) (487871848)
            Longitude: 9.2112415 (09°12'40.47"E) (92112415)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (19292) (0x4b5c, 19.292 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001300) (11.0001300 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (311) (3.11 m/s, 11.20 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-3) (-0.3 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination           Protocol Length Info
     99 76.630234683   CohdaWir_20:1d:4a     Broadcast             ITS      265    CAM(v2)
Frame 99: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:00.095345212 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426720.095345212 seconds
    [Time delta from previous captured frame: 0.230031013 seconds]
    [Time delta from previous displayed frame: 0.230031013 seconds]
    [Time since reference or first frame: 76.630234683 seconds]
    Frame Number: 99
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x078b (1931)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9d01 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xac96 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 76.630234683 seconds]
        [Time since previous frame: 0.230031013 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 99
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b300a8190000…
            MKxIFMsg: 0200b300a8190000d68d0000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6568, Ref=0, Reserved=36310, Ret=0
                Type: 2
                Len: 179
                Seq: 6568
                Ref: 0
                Reserved: 36310
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff3affd2faffff554e9370ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1326, TSF=0x0005d4de70934e55, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1326
                TSF: 0x0005d4de70934e55
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1010 .... = Sequence number: 298
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575840.728s (1575840728)
            Latitude: 48.7871848 (48°47'13.87"N) (487871848)
            Longitude: 9.2112415 (09°12'40.47"E) (92112415)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0110 = Speed: 0x0006 (0.06 m/s) (0.22 km/h) (6)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (19492) (0x4c24, 19.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001220) (11.0001220 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (277) (2.77 m/s, 9.97 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
    100 76.800223673   CohdaWir_20:1d:4a   Broadcast            ITS      465    CAM(v2)
Frame 100: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:00.265334202 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426720.265334202 seconds
    [Time delta from previous captured frame: 0.169988990 seconds]
    [Time delta from previous displayed frame: 0.169988990 seconds]
    [Time since reference or first frame: 76.800223673 seconds]
    Frame Number: 100
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x078e (1934)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c36 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xa35c [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 76.800223673 seconds]
        [Time since previous frame: 0.169988990 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 100
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 00004800020000040000004e54800380002007b01ad190000…
            MKxIFMsg: 02007b01ad19000089470000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6573, Ref=0, Reserved=18313, Ret=0
                Type: 2
                Len: 379
                Seq: 6573
                Ref: 0
                Reserved: 18313
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ffd9faffff33d89570ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1319, TSF=0x0005d4de7095d833, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1319
                TSF: 0x0005d4de7095d833
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1011 .... = Sequence number: 299
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575841.728s (1575841728)
                Latitude: 48.7871832 (48°47'13.86"N) (487871832)
                Longitude: 9.2112403 (09°12'40.47"E) (92112403)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (19692) (0x4cec, 19.692 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110001150) (11.0001150 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (239) (2.39 m/s, 8.60 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
              lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                  basicVehicleContainerLowFrequency
                      vehicleRole: default (0)
                      exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                          0... .... lowBeamHeadlightsOn: False
                          .0.. .... highBeamHeadlightsOn: False
                          ..0. .... leftTurnSignalOn: False
                          ...0 .... rightTurnSignalOn: False
                          .... 1... daytimeRunningLightsOn: True
                          .... .0.. reverseLightOn: False
                          .... ..0. fogLightOn: False
                          .... ...0 parkingLightsOn: False
                      pathHistory: 23 items
                          Item 0
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 1
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 2
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 3
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 4
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 5
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 6
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 7
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 8
                              PathPoint
                                  pathPosition
                                      deltaLatitude: unavailable (131072)
                                      deltaLongitude: unavailable (131072)
                                      deltaAltitude: unavailable (12800)
                                  pathDeltaTime: Unknown (0)
                          Item 9
                              PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time           Source            Destination          Protocol  Length  Info
    101 77.000185437   CohdaWir_20:1d:4a   Broadcast            ITS       265     CAM(v2)
Frame 101: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:00.465295966 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426720.465295966 seconds
    [Time delta from previous captured frame: 0.199961764 seconds]
    [Time delta from previous displayed frame: 0.199961764 seconds]
    [Time since reference or first frame: 77.000185437 seconds]
    Frame Number: 101
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x078f (1935)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9cfd [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x4ded [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 77.000185437 seconds]
        [Time since previous frame: 0.199961764 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 101
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200040000004e5480038000200b300b2190000…
            MKxIFMsg: 0200b300b2190000ffff0000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6578, Ref=0, Reserved=65535, Ret=0
                Type: 2
                Len: 179
                Seq: 6578
                Ref: 0
                Reserved: 65535
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff7afaffffb8f79870ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
    NoiseA=-204, NoiseB=-204, FreqOffset=-1414, TSF=0x0005d4de7098f7b8, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1414
                TSF: 0x0005d4de7098f7b8
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
    IEEE 802.11 QoS Data, Flags: ........
        Type/Subtype: QoS Data (0x0028)
        Frame Control Field: 0x8800
            .... ..00 = Version: 0
            .... 10.. = Type: Data frame (2)
            1000 .... = Subtype: 8
            Flags: 0x00
                .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
                .... .0.. = More Fragments: This is the last fragment
                .... 0... = Retry: Frame is not being retransmitted
                ...0 .... = PWR MGT: STA will stay up
                ..0. .... = More Data: No data buffered
                .0.. .... = Protected flag: Data is not protected
                0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
        Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
        Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
        Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
        .... .... .... 0000 = Fragment number: 0
        0001 0010 1100 .... = Sequence number: 300
        Qos Control: 0x0023
            .... .... .... 0011 = TID: 3
            [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
            .... .... ...0 .... = EOSP: Service period
            .... .... .01. .... = Ack Policy: No Ack (0x1)
            .... .... 0... .... = Payload Type: MSDU
            0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575841.728s (1575841728)
            Latitude: 48.7871832 (48°47'13.86"N) (487871832)
            Longitude: 9.2112403 (09°12'40.47"E) (92112403)
            1... .... .... .... = PAI: 1
            .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (19892) (0x4db4, 19.892 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000140) (49.0000140 deg)
                        longitude: Unknown (110001090) (11.0001090 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (214) (2.14 m/s, 7.70 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: pointOneMeterPerSecSquaredBackward (-1) (-0.1 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.     Time           Source                Destination          Protocol Length Info
    102 77.420336524   CohdaWir_20:1d:4a     Broadcast            ITS      465    CAM(v2)
Frame 102: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:00.885447053 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426720.885447053 seconds
    [Time delta from previous captured frame: 0.420151087 seconds]
    [Time delta from previous displayed frame: 0.420151087 seconds]
    [Time since reference or first frame: 77.420336524 seconds]
    Frame Number: 102
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x07b3 (1971)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c11 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x511e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 77.420336524 seconds]
        [Time since previous frame: 0.420151087 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 102
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b01bb190000…
        MKxIFMsg: 02007b01bb19000082b80000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6587, Ref=0, Reserved=47234, Ret=0
            Type: 2
            Len: 379
            Seq: 6587
            Ref: 0
            Reserved: 47234
            Ret: 0
        MKxRxPacketData: 00000a01a4ffa0ff2eff34ff8ffaffffcb509f70ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-210, NoiseB=-204, FreqOffset=-1393, TSF=0x0005d4de709f50cb, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -92
            RxPowerB: -96
            RxNoiseA: -210
            RxNoiseB: -204
            FreqOffset: -1393
            TSF: 0x0005d4de709f50cb
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1101 .... = Sequence number: 301
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575841.728s (1575841728)
                Latitude: 48.7871832 (48°47'13.86"N) (487871832)
                Longitude: 9.2112403 (09°12'40.47"E) (92112403)
                1... .... .... .... = PAI: 1
                .000 0000 0000 1100 = Speed: 0x000c (0.12 m/s) (0.43 km/h) (12)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (20292) (0x4f44, 20.292 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000140) (49.0000140 deg)
                            longitude: Unknown (110000990) (11.0000990 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (154) (1.54 m/s, 5.54 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (-2) (-0.2 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 10
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 11
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 12
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 13
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 14
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 15
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 16
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 17
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 18
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 19
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
            Item 20
                PathPoint
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
```

```
                                    pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.     Time            Source              Destination        Protocol Length Info
    103 77.800220553    CohdaWir_20:1d:4a   Broadcast          ITS      265    CAM(v2)
Frame 103: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:01.265331082 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426721.265331082 seconds
    [Time delta from previous captured frame: 0.379884029 seconds]
    [Time delta from previous displayed frame: 0.379884029 seconds]
    [Time since reference or first frame: 77.800220553 seconds]
    Frame Number: 103
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x07cb (1995)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9cc1 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xa943 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 77.800220553 seconds]
        [Time since previous frame: 0.379884029 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 103
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300c4190000…
            MKxIFMsg: 0200b300c419000004e50000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6596, Ref=0, Reserved=58628, Ret=0
                Type: 2
                Len: 179
                Seq: 6596
                Ref: 0
                Reserved: 58628
                Ret: 0
            MKxRxPacketData: 00000a01a4ffa0ff34ff34ffecfaffff0a3da570ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1300, TSF=0x0005d4de70a53d0a, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -92
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1300
                TSF: 0x0005d4de70a53d0a
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1110 .... = Sequence number: 302
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575842.728s (1575842728)
            Latitude: 48.7871818 (48°47'13.85"N) (487871818)
            Longitude: 9.2112389 (09°12'40.46"E) (92112389)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0000 = Speed: 0x0000 (0.00 m/s) (0.00 km/h) (0)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (20692) (0x50d4, 20.692 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000420) (49.0000420 deg)
                        longitude: Unknown (110000920) (11.0000920 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (116) (1.16 m/s, 4.18 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: noAcceleration (0) (0.0 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time          Source              Destination          Protocol Length Info
    104 78.080348359  CohdaWir_20:1d:4a   Broadcast            ITS      465    CAM(v2)
Frame 104: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:01.545458888 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426721.545458888 seconds
    [Time delta from previous captured frame: 0.280127806 seconds]
    [Time delta from previous displayed frame: 0.280127806 seconds]
    [Time since reference or first frame: 78.080348359 seconds]
    Frame Number: 104
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x07d5 (2005)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9bef [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0xec25 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 78.080348359 seconds]
        [Time since previous frame: 0.280127806 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 104
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002007b01ca190000…
        MKxIFMsg: 02007b01ca19000034ff0000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6602, Ref=0, Reserved=65332, Ret=0
            Type: 2
            Len: 379
            Seq: 6602
            Ref: 0
            Reserved: 65332
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff3aff25fbffffb26fa970ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1243, TSF=0x0005d4de70a96fb2, FrameLength=0323, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -198
            FreqOffset: -1243
            TSF: 0x0005d4de70a96fb2
            FrameLength: 323
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0010 1111 .... = Sequence number: 303
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575842.728s (1575842728)
            Latitude: 48.7871818 (48°47'13.85"N) (487871818)
            Longitude: 9.2112389 (09°12'40.46"E) (92112389)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0000 = Speed: 0x0000 (0.00 m/s) (0.00 km/h) (0)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (20992) (0x5200, 20.992 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000420) (49.0000420 deg)
                        longitude: Unknown (110000860) (11.0000860 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (177) (1.77 m/s, 6.37 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: pointOneMeterPerSecSquaredForward (1) (0.1 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 10
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 11
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 12
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 13
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 14
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 15
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 16
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 17
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 18
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 19
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
            pathDeltaTime: Unknown (0)
    Item 20
        PathPoint
            pathPosition
                deltaLatitude: unavailable (131072)
                deltaLongitude: unavailable (131072)
                deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                        Item 21
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 22
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
```

```
No.     Time           Source                Destination          Protocol Length Info
    105 78.400279524   CohdaWir_20:1d:4a     Broadcast            ITS      265    CAM(v2)
Frame 105: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:01.865390053 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426721.865390053 seconds
    [Time delta from previous captured frame: 0.319931165 seconds]
    [Time delta from previous displayed frame: 0.319931165 seconds]
    [Time since reference or first frame: 78.400279524 seconds]
    Frame Number: 105
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x07df (2015)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9cad [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0xcb07 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 78.400279524 seconds]
        [Time since previous frame: 0.319931165 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 105
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300d2190000…
            MKxIFMsg: 0200b300d2190000a60f0000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6610, Ref=0, Reserved=4006, Ret=0
                Type: 2
                Len: 179
                Seq: 6610
                Ref: 0
                Reserved: 4006
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff86fafffffa447ae70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1402, TSF=0x0005d4de70ae47a4, FrameLength=0123, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1402
                TSF: 0x0005d4de70ae47a4
                FrameLength: 123
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0000 .... = Sequence number: 304
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575842.728s (1575842728)
                Latitude: 48.7871818 (48°47'13.85"N) (487871818)
                Longitude: 9.2112389 (09°12'40.46"E) (92112389)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0000 = Speed: 0x0000 (0.00 m/s) (0.00 km/h) (0)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (21292) (0x532c, 21.292 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000420) (49.0000420 deg)
                            longitude: Unknown (110000770) (11.0000770 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (240) (2.40 m/s, 8.64 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: Unknown (2) (0.2 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time           Source                Destination            Protocol Length Info
     106 78.740268369   CohdaWir_20:1d:4a     Broadcast              ITS      465    CAM(v2)
Frame 106: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:02.205378898 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426722.205378898 seconds
    [Time delta from previous captured frame: 0.339988845 seconds]
    [Time delta from previous displayed frame: 0.339988845 seconds]
    [Time since reference or first frame: 78.740268369 seconds]
    Frame Number: 106
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x07e6 (2022)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9bde [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x5ab8 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 78.740268369 seconds]
        [Time since previous frame: 0.339988845 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 106
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b01d9190000…
            MKxIFMsg: 02007b01d919000000000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6617, Ref=0, Reserved=0, Ret=0
                Type: 2
                Len: 379
                Seq: 6617
                Ref: 0
                Reserved: 0
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff34ffeffaffffa470b370ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-204, FreqOffset=-1297, TSF=0x0005d4de70b370a4, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -204
                FreqOffset: -1297
                TSF: 0x0005d4de70b370a4
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0001 .... = Sequence number: 305
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 245
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575843.728s (1575843728)
                Latitude: 48.7871805 (48°47'13.85"N) (487871805)
                Longitude: 9.2112376 (09°12'40.46"E) (92112376)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
  Basic Transport Protocol (Type B)
      Destination Port: 2001
      Destination Port Info: 0
  ETSI ITS (CAM)
      CAM
          header
              protocolVersion: 2
              messageID: cam (2)
              stationID: 1277901399 (0x4c2b3a57)
          cam
              generationDeltaTime: Unknown (21592) (0x5458, 21.592 sec)
              camParameters
                  basicContainer
                      stationType: specialVehicles (10)
                      referencePosition
                          latitude: Unknown (490000420) (49.0000420 deg)
                          longitude: Unknown (110000650) (11.0000650 deg)
                          positionConfidenceEllipse
                              semiMajorConfidence: unavailable (4095)
                              semiMinorConfidence: unavailable (4095)
                              semiMajorOrientation: unavailable (3601)
                          altitude
                              altitudeValue: unavailable (800001)
                              altitudeConfidence: unavailable (15)
                  highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                      basicVehicleContainerHighFrequency
                          heading
                              headingValue: wgs84West (2700) (270.0 deg)
                              headingConfidence: equalOrWithinOneDegree (10)
                          speed
                              speedValue: Unknown (300) (3.00 m/s, 10.80 km/h)
                              speedConfidence: Unknown (3) (0.03 m/s)
                          driveDirection: forward (0)
                          vehicleLength
                              vehicleLengthValue: Unknown (50) (5.0 m)
                              vehicleLengthConfidenceIndication: noTrailerPresent (0)
                          vehicleWidth: Unknown (18) (1.8 m)
                          longitudinalAcceleration
                              longitudinalAccelerationValue: Unknown (2) (0.2 m/s/s)
                              longitudinalAccelerationConfidence: unavailable (102)
                          curvature
                              curvatureValue: straight (0)
                              curvatureConfidence: unavailable (7)
                          curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                                pathDeltaTime: Unknown (0)
                    Item 21
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
                    Item 22
                        PathPoint
                            pathPosition
                                deltaLatitude: unavailable (131072)
                                deltaLongitude: unavailable (131072)
                                deltaAltitude: unavailable (12800)
                            pathDeltaTime: Unknown (0)
```

```
No.    Time         Source           Destination       Protocol Length Info
   107 79.000310880  CohdaWir_20:1d:4a  Broadcast         ITS      265    CAM(v2)
Frame 107: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:02.465421409 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426722.465421409 seconds
    [Time delta from previous captured frame: 0.260042511 seconds]
    [Time delta from previous displayed frame: 0.260042511 seconds]
    [Time since reference or first frame: 79.000310880 seconds]
    Frame Number: 107
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x07fc (2044)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c90 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x9b26 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 79.000310880 seconds]
        [Time since previous frame: 0.260042511 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 107
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e5480038000200b300e0190000…
        MKxIFMsg: 0200b300e01900004a000000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6624, Ref=0, Reserved=74, Ret=0
            Type: 2
            Len: 179
            Seq: 6624
            Ref: 0
            Reserved: 74
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff61fbffff7386b770ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1183, TSF=0x0005d4de70b78673, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1183
            TSF: 0x0005d4de70b78673
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0010 .... = Sequence number: 306
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
            Lifetime 1000 ms
                0000 01.. = Multiplier: 1
                .... ..01 = Base: 1 s (1)
            Remaining Hop Limit: 1
        Common Header
            0010 .... = Next Header: BTP-B (2)
            .... 0000 = Reserved: 0
            0101 .... = Header Type: TSB (5)
            .... 0000 = Header Subtype: Single Hop (0)
            Traffic Class: 0x02
                0... .... = Store-Carry-Forward: 0
                .0.. .... = Channel Offload: 0
                ..00 0010 = DP ID (DCC Profile Id): 2
            Flags: 0x80
                1... .... = Mobile Flag: Mobile (1)
                .000 0000 = Reserved: 0x00
            Payload Length: 45
            Maximum Hop Limit: 1
            Reserved: 0
        Topology-Scoped Broadcast
            Source Position Vector
                GN Address: 0x140004e548201d4a
                    0... .... .... .... = Assignment: Initial (0)
                    .001 01.. .... .... = Station Type: Passenger Car (5)
                    .... ..00 0000 0000 = Reserved: 0
                    Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
                Timestamp: 1575843.728s (1575843728)
                Latitude: 48.7871805 (48°47'13.85"N) (487871805)
                Longitude: 9.2112376 (09°12'40.46"E) (92112376)
                1... .... .... .... = PAI: 1
                .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
                Heading: 0.0° (0)
            Reserved (G5 DCC)
                CBR_L_0: 0
                CBR_L_1: 0
                Output power: 0 dB
                MCO: 0
    Basic Transport Protocol (Type B)
        Destination Port: 2001
        Destination Port Info: 0
    ETSI ITS (CAM)
        CAM
            header
                protocolVersion: 2
                messageID: cam (2)
                stationID: 1277901399 (0x4c2b3a57)
            cam
                generationDeltaTime: Unknown (21892) (0x5584, 21.892 sec)
                camParameters
                    basicContainer
                        stationType: specialVehicles (10)
                        referencePosition
                            latitude: Unknown (490000420) (49.0000420 deg)
                            longitude: Unknown (110000510) (11.0000510 deg)
                            positionConfidenceEllipse
                                semiMajorConfidence: unavailable (4095)
                                semiMinorConfidence: unavailable (4095)
                                semiMajorOrientation: unavailable (3601)
                            altitude
                                altitudeValue: unavailable (800001)
                                altitudeConfidence: unavailable (15)
                    highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                        basicVehicleContainerHighFrequency
                            heading
                                headingValue: wgs84West (2700) (270.0 deg)
                                headingConfidence: equalOrWithinOneDegree (10)
                            speed
                                speedValue: Unknown (367) (3.67 m/s, 13.21 km/h)
                                speedConfidence: Unknown (3) (0.03 m/s)
                            driveDirection: forward (0)
                            vehicleLength
                                vehicleLengthValue: Unknown (50) (5.0 m)
                                vehicleLengthConfidenceIndication: noTrailerPresent (0)
                            vehicleWidth: Unknown (18) (1.8 m)
                            longitudinalAcceleration
                                longitudinalAccelerationValue: pointOneMeterPerSecSquaredForward (1) (0.1 m/s/s)
                                longitudinalAccelerationConfidence: unavailable (102)
                            curvature
                                curvatureValue: straight (0)
                                curvatureConfidence: unavailable (7)
                            curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.    Time         Source              Destination         Protocol Length Info
   108 79.270363997  CohdaWir_20:1d:4a    Broadcast           ITS      465    CAM(v2)
Frame 108: 465 bytes on wire (3720 bits), 465 bytes captured (3720 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:02.735474526 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426722.735474526 seconds
    [Time delta from previous captured frame: 0.270053117 seconds]
    [Time delta from previous displayed frame: 0.270053117 seconds]
    [Time since reference or first frame: 79.270363997 seconds]
    Frame Number: 108
    Frame Length: 465 bytes (3720 bits)
    Capture Length: 465 bytes (3720 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 451
    Identification: 0x080e (2062)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9bb6 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 431
    Checksum: 0x9515 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 79.270363997 seconds]
        [Time since previous frame: 0.270053117 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 108
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -46
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002007b01e6190000…
            MKxIFMsg: 02007b01e619000003000000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=379, Seq=6630, Ref=0, Reserved=3, Ret=0
                Type: 2
                Len: 379
                Seq: 6630
                Ref: 0
                Reserved: 3
                Ret: 0
            MKxRxPacketData: 00000a01a4ffa0ff34ff3aff15fbffff5ba2bb70ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-092, PowerB=-096,
NoiseA=-204, NoiseB=-198, FreqOffset=-1259, TSF=0x0005d4de70bba25b, FrameLength=0323, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -92
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -198
                FreqOffset: -1259
                TSF: 0x0005d4de70bba25b
                FrameLength: 323
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0011 .... = Sequence number: 307
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (TSB Single Hop)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 245
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575843.728s (1575843728)
            Latitude: 48.7871805 (48°47'13.85"N) (487871805)
            Longitude: 9.2112376 (09°12'40.46"E) (92112376)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (22192) (0x56b0, 22.192 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000420) (49.0000420 deg)
                        longitude: Unknown (110000340) (11.0000340 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (432) (4.32 m/s, 15.55 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: Unknown (2) (0.2 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
                    yawRate
                        yawRateValue: straight (0) (0.00 deg/sec)
                        yawRateConfidence: degSec-000-01 (0)
            lowFrequencyContainer: basicVehicleContainerLowFrequency (0)
                basicVehicleContainerLowFrequency
                    vehicleRole: default (0)
                    exteriorLights: 08 [bit length 8, 0000 1000 decimal value 8]
                        0... .... lowBeamHeadlightsOn: False
                        .0.. .... highBeamHeadlightsOn: False
                        ..0. .... leftTurnSignalOn: False
                        ...0 .... rightTurnSignalOn: False
                        .... 1... daytimeRunningLightsOn: True
                        .... .0.. reverseLightOn: False
                        .... ..0. fogLightOn: False
                        .... ...0 parkingLightsOn: False
                    pathHistory: 23 items
                        Item 0
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 1
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 2
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 3
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 4
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 5
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 6
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 7
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 8
                            PathPoint
                                pathPosition
                                    deltaLatitude: unavailable (131072)
                                    deltaLongitude: unavailable (131072)
                                    deltaAltitude: unavailable (12800)
                                pathDeltaTime: Unknown (0)
                        Item 9
                            PathPoint
```

```
                    pathPosition
                        deltaLatitude: unavailable (131072)
                        deltaLongitude: unavailable (131072)
                        deltaAltitude: unavailable (12800)
                    pathDeltaTime: Unknown (0)
                Item 10
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 11
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 12
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 13
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 14
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 15
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 16
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 17
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 18
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 19
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
                        pathDeltaTime: Unknown (0)
                Item 20
                    PathPoint
                        pathPosition
                            deltaLatitude: unavailable (131072)
                            deltaLongitude: unavailable (131072)
                            deltaAltitude: unavailable (12800)
```

```
                            pathDeltaTime: Unknown (0)
                 Item 21
                     PathPoint
                         pathPosition
                             deltaLatitude: unavailable (131072)
                             deltaLongitude: unavailable (131072)
                             deltaAltitude: unavailable (12800)
                         pathDeltaTime: Unknown (0)
                 Item 22
                     PathPoint
                         pathPosition
                             deltaLatitude: unavailable (131072)
                             deltaLongitude: unavailable (131072)
                             deltaAltitude: unavailable (12800)
                         pathDeltaTime: Unknown (0)
```

```
No.    Time          Source              Destination         Protocol Length Info
   109 79.630297334  CohdaWir_20:1d:4a   Broadcast           ITS      265    CAM(v2)
Frame 109: 265 bytes on wire (2120 bits), 265 bytes captured (2120 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:03.095407863 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426723.095407863 seconds
    [Time delta from previous captured frame: 0.359933337 seconds]
    [Time delta from previous displayed frame: 0.359933337 seconds]
    [Time since reference or first frame: 79.630297334 seconds]
    Frame Number: 109
    Frame Length: 265 bytes (2120 bits)
    Capture Length: 265 bytes (2120 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn:btp:etsiits]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 251
    Identification: 0x0817 (2071)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c75 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 231
    Checksum: 0x7f77 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 79.630297334 seconds]
        [Time since previous frame: 0.359933337 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 109
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e5480038000200b300ee190000…
        MKxIFMsg: 0200b300ee19000048200000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=179, Seq=6638, Ref=0, Reserved=8264, Ret=0
            Type: 2
            Len: 179
            Seq: 6638
            Ref: 0
            Reserved: 8264
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff3aff3affd7fafffffa708c170ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1321, TSF=0x0005d4de70c108a7, FrameLength=0123, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -198
            RxNoiseB: -198
            FreqOffset: -1321
            TSF: 0x0005d4de70c108a7
            FrameLength: 123
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0100 .... = Sequence number: 308
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (TSB Single Hop)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 1000 ms
            0000 01.. = Multiplier: 1
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0010 .... = Next Header: BTP-B (2)
        .... 0000 = Reserved: 0
        0101 .... = Header Type: TSB (5)
        .... 0000 = Header Subtype: Single Hop (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 45
        Maximum Hop Limit: 1
        Reserved: 0
    Topology-Scoped Broadcast
        Source Position Vector
            GN Address: 0x140004e548201d4a
                0... .... .... .... = Assignment: Initial (0)
                .001 01.. .... .... = Station Type: Passenger Car (5)
                .... ..00 0000 0000 = Reserved: 0
                Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
            Timestamp: 1575843.728s (1575843728)
            Latitude: 48.7871805 (48°47'13.85"N) (487871805)
            Longitude: 9.2112376 (09°12'40.46"E) (92112376)
            1... .... .... .... = PAI: 1
            .000 0000 0000 0010 = Speed: 0x0002 (0.02 m/s) (0.07 km/h) (2)
            Heading: 0.0° (0)
        Reserved (G5 DCC)
            CBR_L_0: 0
            CBR_L_1: 0
            Output power: 0 dB
            MCO: 0
Basic Transport Protocol (Type B)
    Destination Port: 2001
    Destination Port Info: 0
ETSI ITS (CAM)
    CAM
        header
            protocolVersion: 2
            messageID: cam (2)
            stationID: 1277901399 (0x4c2b3a57)
        cam
            generationDeltaTime: Unknown (22492) (0x57dc, 22.492 sec)
            camParameters
                basicContainer
                    stationType: specialVehicles (10)
                    referencePosition
                        latitude: Unknown (490000420) (49.0000420 deg)
                        longitude: Unknown (110000150) (11.0000150 deg)
                        positionConfidenceEllipse
                            semiMajorConfidence: unavailable (4095)
                            semiMinorConfidence: unavailable (4095)
                            semiMajorOrientation: unavailable (3601)
                        altitude
                            altitudeValue: unavailable (800001)
                            altitudeConfidence: unavailable (15)
                highFrequencyContainer: basicVehicleContainerHighFrequency (0)
                    basicVehicleContainerHighFrequency
                        heading
                            headingValue: wgs84West (2700) (270.0 deg)
                            headingConfidence: equalOrWithinOneDegree (10)
                        speed
                            speedValue: Unknown (478) (4.78 m/s, 17.21 km/h)
                            speedConfidence: Unknown (3) (0.03 m/s)
                        driveDirection: forward (0)
                        vehicleLength
                            vehicleLengthValue: Unknown (50) (5.0 m)
                            vehicleLengthConfidenceIndication: noTrailerPresent (0)
                        vehicleWidth: Unknown (18) (1.8 m)
                        longitudinalAcceleration
                            longitudinalAccelerationValue: pointOneMeterPerSecSquaredForward (1) (0.1 m/s/s)
                            longitudinalAccelerationConfidence: unavailable (102)
                        curvature
                            curvatureValue: straight (0)
                            curvatureConfidence: unavailable (7)
                        curvatureCalculationMode: yawRateUsed (0)
```

```
yawRate
    yawRateValue: straight (0) (0.00 deg/sec)
    yawRateConfidence: degSec-000-01 (0)
```

```
No.      Time          Source              Destination          Protocol Length Info
    110 83.290207968   CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216     Beacon
Frame 110: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:06.755318497 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426726.755318497 seconds
    [Time delta from previous captured frame: 3.659910634 seconds]
    [Time delta from previous displayed frame: 3.659910634 seconds]
    [Time since reference or first frame: 83.290207968 seconds]
    Frame Number: 110
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0868 (2152)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9c55 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xe960 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 83.290207968 seconds]
        [Time since previous frame: 3.659910634 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 110
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200381a0000…
        MKxIFMsg: 02008200381a000056010000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6712, Ref=0, Reserved=342, Ret=0
            Type: 2
            Len: 130
            Seq: 6712
            Ref: 0
            Reserved: 342
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff6efaffff69f4f870ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1426, TSF=0x0005d4de70f8f469, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1426
            TSF: 0x0005d4de70f8f469
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
        .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0101 .... = Sequence number: 309
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575847.728s (1575847728)
        Latitude: 48.7871768 (48°47'13.84"N) (487871768)
        Longitude: 9.2112352 (09°12'40.45"E) (92112352)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination          Protocol Length Info
    111 86.440397352    CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216    Beacon
Frame 111: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:09.905507881 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426729.905507881 seconds
    [Time delta from previous captured frame: 3.150189384 seconds]
    [Time delta from previous displayed frame: 3.150189384 seconds]
    [Time since reference or first frame: 86.440397352 seconds]
    Frame Number: 111
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0987 (2439)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9b36 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xce6e [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 86.440397352 seconds]
        [Time since previous frame: 3.150189384 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 111
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
          Option Length: 1
          Rate: 6 Mbit/s (12)
      Frame check sequence
          Option Tag: Frame check sequence (17)
          Option Length: 1
          FCS: Frame is valid
      Cohda MKx Rx (LMAC) header
          Option Tag: Cohda MKx Rx (LMAC) header (242)
          Option Length: 72
      Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200781a0000…
          MKxIFMsg: 02008200781a0000560b0000
          MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6776, Ref=0, Reserved=2902, Ret=0
              Type: 2
              Len: 130
              Seq: 6776
              Ref: 0
              Reserved: 2902
              Ret: 0
          MKxRxPacketData: 00000a01a2ffa0ff34ff34ff47fbffffaf072971ded40500…
          MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1209, TSF=0x0005d4de712907af, FrameLength=0074, Freq=5900
              RadioID: 0
              ChannelID: 0
              MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
              FCS: 0x01
              RxPowerA: -94
              RxPowerB: -96
              RxNoiseA: -204
              RxNoiseB: -204
              FreqOffset: -1209
              TSF: 0x0005d4de712907af
              FrameLength: 74
              Freq: 5900
      End
          Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0110 .... = Sequence number: 310
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575850.728s (1575850728)
        Latitude: 48.7871743 (48°47'13.83"N) (487871743)
        Longitude: 9.2112383 (09°12'40.46"E) (92112383)
        1... .... .... .... = PAI: 1
        .000 0000 0001 1010 = Speed: 0x001a (0.26 m/s) (0.94 km/h) (26)
        Heading: 0.0° (0)
```

```
No.      Time          Source            Destination          Protocol Length Info
     112 89.980182072   CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216    Beacon
Frame 112: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:13.445292601 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426733.445292601 seconds
    [Time delta from previous captured frame: 3.539784720 seconds]
    [Time delta from previous displayed frame: 3.539784720 seconds]
    [Time since reference or first frame: 89.980182072 seconds]
    Frame Number: 112
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0a53 (2643)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9a6a [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xc363 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 89.980182072 seconds]
        [Time since previous frame: 3.539784720 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 112
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e54800380002008200c01a0000…
            MKxIFMsg: 02008200c01a0000561d0000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6848, Ref=0, Reserved=7510, Ret=0
                Type: 2
                Len: 130
                Seq: 6848
                Ref: 0
                Reserved: 7510
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff89fbffffa30a5f71ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1143, TSF=0x0005d4de715f0aa3, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1143
                TSF: 0x0005d4de715f0aa3
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 0111 .... = Sequence number: 311
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575854.728s (1575854728)
        Latitude: 48.7871710 (48°47'13.82"N) (487871710)
        Longitude: 9.2112450 (09°12'40.48"E) (92112450)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
    113 93.360218752    CohdaWir_20:1d:4a   Broadcast           GeoNetworking 216    Beacon
Frame 113: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:16.825329281 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426736.825329281 seconds
    [Time delta from previous captured frame: 3.380036680 seconds]
    [Time delta from previous displayed frame: 3.380036680 seconds]
    [Time since reference or first frame: 93.360218752 seconds]
    Frame Number: 113
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0b30 (2864)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x998d [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x0948 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 93.360218752 seconds]
        [Time since previous frame: 3.380036680 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 113
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 0000480002000040000004e54800380002008200051b0000…
        MKxIFMsg: 02008200051b0000562a0000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6917, Ref=0, Reserved=10838, Ret=0
            Type: 2
            Len: 130
            Seq: 6917
            Ref: 0
            Reserved: 10838
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff2eff2eff7efbffffffa79271ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-210, NoiseB=-210, FreqOffset=-1154, TSF=0x0005d4de7192a7ff, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -210
            RxNoiseB: -210
            FreqOffset: -1154
            TSF: 0x0005d4de7192a7ff
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 1000 .... = Sequence number: 312
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575857.728s (1575857728)
        Latitude: 48.7871688 (48°47'13.81"N) (487871688)
        Longitude: 9.2112488 (09°12'40.50"E) (92112488)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination         Protocol Length Info
    114 97.020249186    CohdaWir_20:1d:4a   Broadcast           GeoNetworking 216    Beacon
Frame 114: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:20.485359715 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426740.485359715 seconds
    [Time delta from previous captured frame: 3.660030434 seconds]
    [Time delta from previous displayed frame: 3.660030434 seconds]
    [Time since reference or first frame: 97.020249186 seconds]
    Frame Number: 114
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0b77 (2935)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9946 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x48a8 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 97.020249186 seconds]
        [Time since previous frame: 3.660030434 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 114
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e548003800020082004f1b0000…
            MKxIFMsg: 020082004f1b000056230000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=6991, Ref=0, Reserved=9046, Ret=0
                Type: 2
                Len: 130
                Seq: 6991
                Ref: 0
                Reserved: 9046
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff3aff3aff10fbffff696fca71ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-198, NoiseB=-198, FreqOffset=-1264, TSF=0x0005d4de71ca6f69, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -198
                RxNoiseB: -198
                FreqOffset: -1264
                TSF: 0x0005d4de71ca6f69
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 1001 .... = Sequence number: 313
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575861.728s (1575861728)
        Latitude: 48.7871665 (48°47'13.80"N) (487871665)
        Longitude: 9.2112492 (09°12'40.50"E) (92112492)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1010 = Speed: 0x000a (0.10 m/s) (0.36 km/h) (10)
        Heading: 0.0° (0)
```

```
No.     Time          Source              Destination          Protocol Length Info
    115 100.750221174 CohdaWir_20:1d:4a   Broadcast            GeoNetworking 216    Beacon
Frame 115: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:24.215331703 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426744.215331703 seconds
    [Time delta from previous captured frame: 3.729971988 seconds]
    [Time delta from previous displayed frame: 3.729971988 seconds]
    [Time since reference or first frame: 100.750221174 seconds]
    Frame Number: 115
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0b99 (2969)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9924 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xa561 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 100.750221174 seconds]
        [Time since previous frame: 3.729971988 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 115
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
            Option Length: 1
            Rate: 6 Mbit/s (12)
        Frame check sequence
            Option Tag: Frame check sequence (17)
            Option Length: 1
            FCS: Frame is valid
        Cohda MKx Rx (LMAC) header
            Option Tag: Cohda MKx Rx (LMAC) header (242)
            Option Length: 72
        Cohda MKx Rx Packet Header: 000048000200004000000004e548003800020082009b1b0000…
            MKxIFMsg: 020082009b1b000056060000
            MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=7067, Ref=0, Reserved=1622, Ret=0
                Type: 2
                Len: 130
                Seq: 7067
                Ref: 0
                Reserved: 1622
                Ret: 0
            MKxRxPacketData: 00000a01a2ffa0ff34ff34ff70fafffffd06a0372ded40500…
            MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1424, TSF=0x0005d4de72036ad0, FrameLength=0074, Freq=5900
                RadioID: 0
                ChannelID: 0
                MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
                FCS: 0x01
                RxPowerA: -94
                RxPowerB: -96
                RxNoiseA: -204
                RxNoiseB: -204
                FreqOffset: -1424
                TSF: 0x0005d4de72036ad0
                FrameLength: 74
                Freq: 5900
        End
            Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 1010 .... = Sequence number: 314
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575865.728s (1575865728)
        Latitude: 48.7871634 (48°47'13.79"N) (487871634)
        Longitude: 9.2112501 (09°12'40.50"E) (92112501)
        1... .... .... .... = PAI: 1
        .000 0000 0000 0100 = Speed: 0x0004 (0.04 m/s) (0.14 km/h) (4)
        Heading: 0.0° (0)
```

```
No.     Time            Source              Destination           Protocol Length Info
    116 104.470229837   CohdaWir_20:1d:4a   Broadcast             GeoNetworking 216    Beacon
Frame 116: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:27.935340366 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426747.935340366 seconds
    [Time delta from previous captured frame: 3.720008663 seconds]
    [Time delta from previous displayed frame: 3.720008663 seconds]
    [Time since reference or first frame: 104.470229837 seconds]
    Frame Number: 116
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0ba7 (2983)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x9916 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0xf9c5 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 104.470229837 seconds]
        [Time since previous frame: 3.720008663 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 116
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 000048000200040000004e54800380002008200e61b0000…
        MKxIFMsg: 02008200e61b000055e10000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=7142, Ref=0, Reserved=57685, Ret=0
            Type: 2
            Len: 130
            Seq: 7142
            Ref: 0
            Reserved: 57685
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ff21fbffffd3183c72ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1247, TSF=0x0005d4de723c18d3, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1247
            TSF: 0x0005d4de723c18d3
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 1011 .... = Sequence number: 315
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
Logical-Link Control (LPD)
    DSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = IG Bit: Individual
    SSAP: SNAP (0xaa)
        1010 101. = SAP: SNAP
        .... ...0 = CR Bit: Command
    Control field: U, func=UI (0x03)
        000. 00.. = Command: Unnumbered Information (0x00)
        .... ..11 = Frame type: Unnumbered frame (0x3)
    Organization Code: 00:00:00 (Officially Xerox, but
    Type: ETSI GN (0x8947)
GeoNetworking_CW: Common (Beacon)
    Basic Header
        0001 .... = Version: 1
        .... 0001 = Next Header: Common (1)
        Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575868.728s (1575868728)
        Latitude: 48.7871608 (48°47'13.78"N) (487871608)
        Longitude: 9.2112516 (09°12'40.51"E) (92112516)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```

```
No.      Time            Source              Destination          Protocol Length Info
    117 108.150296450   CohdaWir_20:1d:4a    Broadcast            GeoNetworking 216    Beacon
Frame 117: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface 0
    Interface id: 0 (enx00e04c6807aa)
        Interface name: enx00e04c6807aa
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan  6, 2022 00:52:31.615406979 W. Europe Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1641426751.615406979 seconds
    [Time delta from previous captured frame: 3.680066613 seconds]
    [Time delta from previous displayed frame: 3.680066613 seconds]
    [Time since reference or first frame: 108.150296450 seconds]
    Frame Number: 117
    Frame Length: 216 bytes (1728 bits)
    Capture Length: 216 bytes (1728 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:tzsp:wlan:llc:gn]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c), Dst: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
    Destination: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        Address: RealtekS_68:07:aa (00:e0:4c:68:07:aa)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        Address: CohdaWir_20:1d:2c (04:e5:48:20:1d:2c)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.10.11, Dst: 192.168.10.10
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
        0000 00.. = Differentiated Services Codepoint: Default (0)
        .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    Total Length: 202
    Identification: 0x0cd7 (3287)
    Flags: 0x4000, Don't fragment
        0... .... .... .... = Reserved bit: Not set
        .1.. .... .... .... = Don't fragment: Set
        ..0. .... .... .... = More fragments: Not set
        ...0 0000 0000 0000 = Fragment offset: 0
    Time to live: 64
    Protocol: UDP (17)
    Header checksum: 0x97e6 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.10.11
    Destination: 192.168.10.10
User Datagram Protocol, Src Port: 53588, Dst Port: 37008
    Source Port: 53588
    Destination Port: 37008
    Length: 182
    Checksum: 0x8e31 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Timestamps]
        [Time since first frame: 108.150296450 seconds]
        [Time since previous frame: 3.680066613 seconds]
TZSP: IEEE 802.11 Good
    Version: 1
    Type: Received packet (0)
    Encapsulation: IEEE 802.11 (18)
    Cohda MKx Rx id header
        Option Tag: Cohda MKx Rx id header (240)
        Option Length: 1
    Cohda MKx ID: 0
    Cohda MKx Rx packet counter
        Option Tag: Cohda MKx Rx packet counter (241)
        Option Length: 4
    Cohda MKx Counter: 117
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -47
    Signal
        Option Tag: Signal (10)
        Option Length: 1
        Signal: -48
    Rate
        Option Tag: Rate (12)
```

```
        Option Length: 1
        Rate: 6 Mbit/s (12)
    Frame check sequence
        Option Tag: Frame check sequence (17)
        Option Length: 1
        FCS: Frame is valid
    Cohda MKx Rx (LMAC) header
        Option Tag: Cohda MKx Rx (LMAC) header (242)
        Option Length: 72
    Cohda MKx Rx Packet Header: 00004800020000400000004e54800380002008200311c0000…
        MKxIFMsg: 02008200311c000055b80000
        MKxIFMsg Summary: tMKxIFMsg: Type=0x0002, Len=130, Seq=7217, Ref=0, Reserved=47189, Ret=0
            Type: 2
            Len: 130
            Seq: 7217
            Ref: 0
            Reserved: 47189
            Ret: 0
        MKxRxPacketData: 00000a01a2ffa0ff34ff34ffc8fafffff19597472ded40500…
        MKxRxPacketData Summary: tMKxRxPacketData: Radio=00, Channel=00, MCS=10, FCS=1, PowerA=-094, PowerB=-096,
NoiseA=-204, NoiseB=-204, FreqOffset=-1336, TSF=0x0005d4de72745919, FrameLength=0074, Freq=5900
            RadioID: 0
            ChannelID: 0
            MCS: QPSK Rate 1/2 (12/6 Mbps) (0x0a)
            FCS: 0x01
            RxPowerA: -94
            RxPowerB: -96
            RxNoiseA: -204
            RxNoiseB: -204
            FreqOffset: -1336
            TSF: 0x0005d4de72745919
            FrameLength: 74
            Freq: 5900
    End
        Option Tag: End (1)
IEEE 802.11 QoS Data, Flags: ........
    Type/Subtype: QoS Data (0x0028)
    Frame Control Field: 0x8800
        .... ..00 = Version: 0
        .... 10.. = Type: Data frame (2)
        1000 .... = Subtype: 8
        Flags: 0x00
            .... ..00 = DS status: Not leaving DS or network is operating in AD-HOC mode (To DS: 0 From DS: 0) (0x0)
            .... .0.. = More Fragments: This is the last fragment
            .... 0... = Retry: Frame is not being retransmitted
            ...0 .... = PWR MGT: STA will stay up
            ..0. .... = More Data: No data buffered
            .0.. .... = Protected flag: Data is not protected
            0... .... = Order flag: Not strictly ordered
    .000 0000 0000 0000 = Duration: 0 microseconds
    Receiver address: Broadcast (ff:ff:ff:ff:ff:ff)
    Transmitter address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    Destination address: Broadcast (ff:ff:ff:ff:ff:ff)
    Source address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
    BSS Id: Broadcast (ff:ff:ff:ff:ff:ff)
    .... .... .... 0000 = Fragment number: 0
    0001 0011 1100 .... = Sequence number: 316
    Qos Control: 0x0023
        .... .... .... 0011 = TID: 3
        [.... .... .... .011 = Priority: Excellent Effort (Best Effort) (3)]
        .... .... ...0 .... = EOSP: Service period
        .... .... .01. .... = Ack Policy: No Ack (0x1)
        .... .... 0... .... = Payload Type: MSDU
        0000 0000 .... .... = TXOP Duration Requested: 0 (no TXOP requested)
    Logical-Link Control (LPD)
        DSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = IG Bit: Individual
        SSAP: SNAP (0xaa)
            1010 101. = SAP: SNAP
            .... ...0 = CR Bit: Command
        Control field: U, func=UI (0x03)
            000. 00.. = Command: Unnumbered Information (0x00)
            .... ..11 = Frame type: Unnumbered frame (0x3)
        Organization Code: 00:00:00 (Officially Xerox, but
        Type: ETSI GN (0x8947)
    GeoNetworking_CW: Common (Beacon)
        Basic Header
            0001 .... = Version: 1
            .... 0001 = Next Header: Common (1)
            Reserved: 0
```

```
        Lifetime 60000 ms
            1111 00.. = Multiplier: 60
            .... ..01 = Base: 1 s (1)
        Remaining Hop Limit: 1
    Common Header
        0000 .... = Next Header: Any (0)
        .... 0000 = Reserved: 0
        0001 .... = Header Type: Beacon (1)
        .... 0000 = Header Subtype: Unspecified (0)
        Traffic Class: 0x02
            0... .... = Store-Carry-Forward: 0
            .0.. .... = Channel Offload: 0
            ..00 0010 = DP ID (DCC Profile Id): 2
        Flags: 0x80
            1... .... = Mobile Flag: Mobile (1)
            .000 0000 = Reserved: 0x00
        Payload Length: 0
        Maximum Hop Limit: 1
        Reserved: 0
    Source Position Vector
        GN Address: 0x140004e548201d4a
            0... .... .... .... = Assignment: Initial (0)
            .001 01.. .... .... = Station Type: Passenger Car (5)
            .... ..00 0000 0000 = Reserved: 0
            Link-Layer Address: CohdaWir_20:1d:4a (04:e5:48:20:1d:4a)
        Timestamp: 1575872.728s (1575872728)
        Latitude: 48.7871588 (48°47'13.77"N) (487871588)
        Longitude: 9.2112552 (09°12'40.52"E) (92112552)
        1... .... .... .... = PAI: 1
        .000 0000 0000 1000 = Speed: 0x0008 (0.08 m/s) (0.29 km/h) (8)
        Heading: 0.0° (0)
```