

Captured CDP frames from Wireshark (They are created with yersinia)

```
> Destination: CDP/VTP/DTP/PagP/UDLD (01:00:0c:cc:cc:cc)
> Source: 85:59:34:2c:b9:82 (85:59:34:2c:b9:82)
Length: 82
▼ Logical-Link Control
  > DSAP: SNAP (0xaa)
  > SSAP: SNAP (0xaa)
  > Control field: U, func=UI (0x03)
  Organization Code: 00:00:0c (Cisco Systems, Inc)
  PID: CDP (0x2000)
▼ Cisco Discovery Protocol
  Version: 1
  TTL: 255 seconds
  Checksum: 0x2b5e [correct]
  [Checksum Status: Good]
  ▼ Device ID: HHHHHHH
    Type: Device ID (0x0001)
    Length: 11
    Device ID: HHHHHHH
  ▼ Addresses
    Type: Addresses (0x0002)
    Length: 17
    Number of addresses: 1
    > IP address: 198.116.155.85
  ▼ Port ID: Ethernet0
    Type: Port ID (0x0003)
    Length: 13
    Sent through Interface: Ethernet0
  ▼ Capabilities
    Type: Capabilities (0x0004)
    Length: 8
    > Capabilities: 0x0000004f
  ▼ Software Version
    Type: Software version (0x0005)
    Length: 9
    Software version: 0.8.2
  ▼ Platform: yersinia
    Type: Platform (0x0006)
```

```
> Destination: CDP/VTP/DTP/PagP/UDLD (01:00:0c:cc:cc:cc)
> Source: 0d:b0:c9:55:73:96 (0d:b0:c9:55:73:96)
Length: 82
▼ Logical-Link Control
  > DSAP: SNAP (0xaa)
  > SSAP: SNAP (0xaa)
  > Control field: U, func=UI (0x03)
  Organization Code: 00:00:0c (Cisco Systems, Inc)
  PID: CDP (0x2000)
▼ Cisco Discovery Protocol
  Version: 1
  TTL: 255 seconds
  Checksum: 0xb787 [correct]
  [Checksum Status: Good]
  ▼ Device ID: 3333333
    Type: Device ID (0x0001)
    Length: 11
    Device ID: 3333333
  ▼ Addresses
    Type: Addresses (0x0002)
    Length: 17
    Number of addresses: 1
    > IP address: 179.125.189.98
  ▼ Port ID: Ethernet0
    Type: Port ID (0x0003)
    Length: 13
    Sent through Interface: Ethernet0
  ▼ Capabilities
    Type: Capabilities (0x0004)
    Length: 8
    > Capabilities: 0x00000008
  ▼ Software Version
    Type: Software version (0x0005)
    Length: 9
    Software version: 0.8.2
  ▼ Platform: yersinia
    Type: Platform (0x0006)
```

And below is the packets captured from my code

```

> Frame 179223: 92 bytes on wire (736 bits), 92 bytes captured (736 bits) on interface -, id 0
< Ethernet II, Src: 3a:7e:22:1c:de:1d (3a:7e:22:1c:de:1d), Dst: CDP/VTP/DTP/PAgP/UDLD (01:00:0c:cc:cc:cc)
  > Destination: CDP/VTP/DTP/PAgP/UDLD (01:00:0c:cc:cc:cc)
  > Source: 3a:7e:22:1c:de:1d (3a:7e:22:1c:de:1d)
    Type: Jumbo LLC (0x8870)
< Logical-Link Control
  > DSAP: SNAP (0xaa)
  > SSAP: SNAP (0xaa)
  > Control field: U, func=UI (0x03)
    Organization Code: 00:00:0c (Cisco Systems, Inc)
    PID: CDP (0x2000)
< Cisco Discovery Protocol
  Version: 2
  TTL: 180 seconds
  Checksum: 0x9609 [correct]
  [Checksum Status: Good]
  < Device ID: Switch
    Type: Device ID (0x0001)
    Length: 10
    Device ID: Switch
  < Addresses
    Type: Addresses (0x0002)
    Length: 17
    Number of addresses: 1
    > IP address: 192.168.1.1
  < Port ID: GigabitEthernet1/1
    Type: Port ID (0x0003)
    Length: 22
    Sent through Interface: GigabitEthernet1/1
  < Capabilities
    Type: Capabilities (0x0004)
    Length: 8
    > Capabilities: 0x00000020
  < Software Version
    Type: Software version (0x0005)
    Length: 9
    Software version: 0.8.2

```

Moreover, we could just use RandMAC() function of scapy but it gives the following warning. So I updated it a bit.

```

< Ethernet II, Src: e3:e8:fc:38:3f:4c (e3:e8:fc:38:3f:4c), Dst: CDP/VTP/DTP/PAgP/UDLD (01:00:0c:cc:cc:cc)
  > Destination: CDP/VTP/DTP/PAgP/UDLD (01:00:0c:cc:cc:cc)
  < Source: e3:e8:fc:38:3f:4c (e3:e8:fc:38:3f:4c)
    > [Expert Info (Warning/Protocol): Source MAC must not be a group address: IEEE 802.3-2002, Section 3.2.3(b)]
      Address: e3:e8:fc:38:3f:4c (e3:e8:fc:38:3f:4c)

```