

## Key Attributes

<b>Protocol Type:</b>	Layer2 Protocol
<b>Standard:</b>	Cisco Proprietary <i>(similar to IEEE 802.1AB –2005, Nortel's NDP, Microsoft's LLTD)</i>
<b>Purpose:</b>	Node Discovery
<b>Multicast Address:</b>	01:00:0C:CC:CC:CC
<b>Supported over GRE Tunnels:</b>	YES
<b>TTL:</b>	180s
<b>Carrier/Transport Protocol:</b>	Ethernet Frames IEEE802.3 <i>All media types that support SNAP (LAN, Frame Relay, ATM)</i>

## CDP Versions

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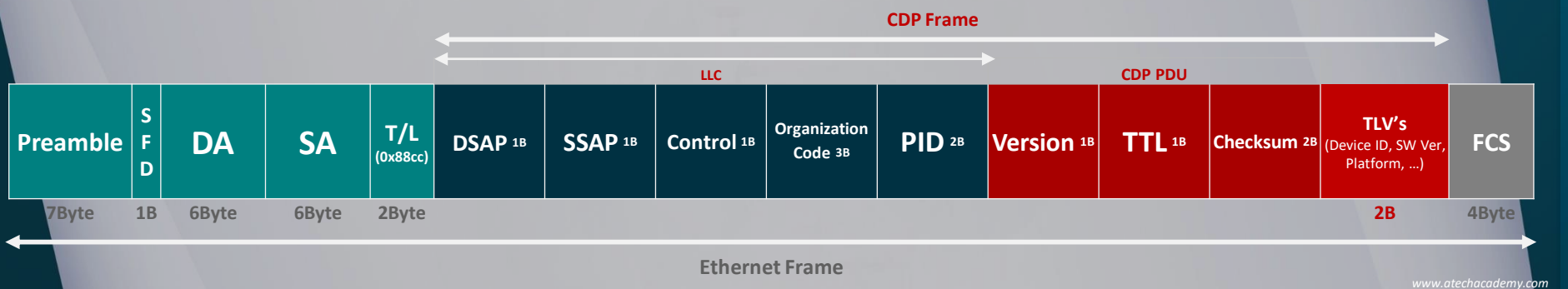

## CDP Timers (Intervals)



<b>CDP Hello Timer</b>	Fixed interval at which the device sends CDP updates to neighbors (Default 60s)
<b>CDP Hold Timer</b>	The duration that a receiving device should maintain CDP neighbor information before aging it (Default 180s)

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## CDP Frame Format


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## CDP Security

**CDP Spoofing Attacks:** Attackers use forged CDP Packets to collect L2 topology info & cause DoS attacks. Therefore, it is recommended to disable CDP on interfaces that connects non-Cisco devices to avoid CDP Spoofing Attacks. The steps involved in this attack are as in below:

1. An attacker sends packet with multicast MAC (01:00:0c:cc:cc:cc) as destination and various spoofed or fake MAC Addresses as source
2. When a Cisco Device receives these frames it starts to add the information in CDP table
3. The table starts to get larger because the attacker may send thousands of CDP frames to the device
4. Finally, the device is unable to handle this much of frames & crashes (DoS Attack)

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