

802.11 Wireshark Filters



Management Frames	<code>wlan.fc.type == 0</code>
Association Request	<code>wlan.fc.type_subtype == 0</code>
Association Response	<code>wlan.fc.type_subtype == 1</code>
Reassociation Request	<code>wlan.fc.type_subtype == 2</code>
Reassociation Response	<code>wlan.fc.type_subtype == 3</code>
Probe Request	<code>wlan.fc.type_subtype == 4</code>
Probe Response	<code>wlan.fc.type_subtype == 5</code>
Beacon	<code>wlan.fc.type_subtype == 8</code>
Disassociation	<code>wlan.fc.type_subtype == 10</code>
Authentication	<code>wlan.fc.type_subtype == 11</code>
Deauthentication	<code>wlan.fc.type_subtype == 12</code>
Action	<code>wlan.fc.type_subtype == 13</code>

Control Frames	<code>wlan.fc.type == 1</code>
Block ACK Request	<code>wlan.fc.type_subtype == 24</code>
Block ACK	<code>wlan.fc.type_subtype == 25</code>
PS-Poll	<code>wlan.fc.type_subtype == 26</code>
Ready To Send (RTS)	<code>wlan.fc.type_subtype == 27</code>
Clear to Send (CTS)	<code>wlan.fc.type_subtype == 28</code>
ACK	<code>wlan.fc.type_subtype == 29</code>

Data Frames	<code>wlan.fc.type == 2</code>
Data	<code>wlan.fc.type_subtype == 32</code>
Null	<code>wlan.fc.type_subtype == 36</code>
QoS Data	<code>wlan.fc.type_subtype == 40</code>
QoS Null	<code>wlan.fc.type_subtype == 44</code>

Display Filter Operators		
Equal	<code>==</code>	<code>eq</code>
Not Equal	<code>!=</code>	<code>ne</code>
And	<code>&&</code>	<code>and</code>
Or	<code> </code>	<code>or</code>
Xor	<code>^^</code>	<code>xor</code>
Not	<code>!</code>	<code>not</code>
Contains	<code>wlan.xxx</code>	<code>contains "xx:xx"</code>

Addresses	
MAC address	<code>wlan.addr == MAC_address</code>
Transmitter Address (TA)	<code>wlan.ta == MAC_address</code>
Receiver Address (RA)	<code>wlan.ra == MAC_address</code>
Source Address (SA)	<code>wlan.sa == MAC_address</code>
Destination Address (DA)	<code>wlan.da == MAC_address</code>

Access Points and SSIDs	
BSSID	<code>wlan.bssid == AP_radio_MAC_address</code>
SSID	<code>wlan.mgt.ssid == SSID</code>

Radio Tap Header	
Specific Channel	<code>radiotap.channel.freq == frequency</code>
Specific Data Rate	<code>radiotap.datarate == rate_in_Mbps</code>
RSSI	<code>radiotap.dbm_antsignal == rate_in_dBm</code>

802.11k,v,r	
802.11v DMS request	<code>wlan.fixed.action_code == 23</code>
802.11v DMS response	<code>wlan.fixed.action_code == 24</code>
802.11k Neighbor request	<code>wlan.rm.action_code == 4</code>
802.11k Neighbor response	<code>wlan.rm.action_code == 5</code>
802.11r FT auth req	<code>(wlan.fc.type_subtype==0) && (wlan.rsn.akms.type == 3)</code>
802.11r FT auth res	<code>(wlan.fc.type_subtype==1) && (wlan.tag.number == 55)</code>
802.11r FT reassoc req	<code>(wlan.fc.type_subtype==2) && (wlan.tag.number == 55)</code>
802.11r FT reassoc res	<code>(wlan.fc.type_subtype==3) && (wlan.tag.number == 55)</code>

Retries	
Retry	<code>wlan.fc.retry==1</code>

Weak Signal and Probes	
Weak Signal	<code>wlan_radio.signal_dbm < -dB</code>
Weak Probe responses	<code>wlan.fc.type_subtype == 5 && wlan_radio.signal_dbm < -dB</code>
Weak Probe requests	<code>wlan.fc.type_subtype == 4 && wlan_radio.signal_dbm < -dB</code>

4-Way Handshake Filter	<code>wlan.addr == MAC && eapol</code>
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