



## Filter by Keyword

Filter by <b>network name</b> (SSID), <b>annotations</b> , <b>vendor</b> , or <b>device name</b>	Type any text. Use quotation marks for exact matching or names with spaces. <i>office, "ABC School", AP123, guest, etc.</i>
Filter by <b>BSSID</b>	Type one or more octets in the form <b>:XX</b> or <b>XX:</b> . <i>00:, 00:11:, :55, :44:55, etc.</i>
Filter by <b>band</b>	Type the band frequency in GHz. <i>2.4ghz, 2ghz, 5ghz, etc.</i>
Filter by <b>generation</b>	Type <b>wifi4</b> , <b>wifi5</b> , or <b>wifi6</b> .
Filter by <b>channel</b>	Type a channel number or range. <i>1, 36, 7-10, etc.</i>
Filter by <b>channel width</b>	Type the channel width in MHz. Units may be omitted. <i>20, 20mhz, 40mhz, etc.</i>
Filter by <b>signal strength</b> (RSSI)	Type <b>&lt;</b> , <b>&gt;</b> , <b>&lt;=</b> or <b>&gt;=</b> and the signal strength in dBm. <i>&gt;-65, &lt;=-70, etc.</i>
Filter by <b>network mode</b>	Type the letter(s) that identify the mode: <b>a</b> , <b>b</b> , <b>g</b> , <b>n</b> , <b>ac</b> , or <b>ax</b> . You may prefix it with 802.11, 80211 or just 11. <i>ac, 802.11b, 80211g, 11n, etc.</i>
Filter by <b>security</b> or <b>encryption type</b>	Type the acronym for the security or encryption type: <b>open</b> , <b>secure</b> , <b>wep</b> , <b>wpa</b> , <b>wpa2</b> , <b>wpa3</b> , <b>saes</b> , <b>psk</b> , <b>owe</b> , <b>802.1X</b> .
Filter by <b>feature</b>	The identifier of the feature: <b>wps</b> (WPS), <b>ft</b> (BSS Fast Transition), <b>dtpc*</b> (DTPC), <b>hs*</b> (Hotspot 2.0).
Filter by <b>SSID visibility</b>	Type <b>hidden</b> to show hidden networks only.

## Combine or Negate Filters

Combine filters using the <b>OR</b> operator	20mhz <b>OR</b> 40mhz
Combine filters using the <b>AND</b> operator	5ghz <b>AND</b> dot11.net.signal >= -72
Negate a filter using the <b>NOT</b> operator	<b>NOT</b> 20mhz
Group filter expressions using parenthesis	(2.4ghz <b>AND</b> 40mhz) <b>OR</b> (5ghz <b>AND</b> 160mhz)

**Note:** Logical operators are CASE SENSITIVE.

## Compare Values

Use the following operators to compare values when filtering using network attributes or information element fields:

<b>==</b>	Equal	Numerical and text values
<b>!=</b>	Not equal	Numerical and text values
<b>~~</b>	Contains	Text values
<b>!~</b>	Does not contain	Text values
<b>&gt;</b>	Greater than	Numerical values
<b>&gt;=</b>	Greater or equal than	Numerical values
<b>&lt;</b>	Less than	Numerical values
<b>&lt;=</b>	Less or equal than	Numerical values

**Note:** If the value you're using for filtering contains spaces, use quotation marks. E.g., for showing networks named "Guest Network" only, use **dot11.net.ssid == "Guest Network"**

\* This filter or feature is only available in WiFi Explorer Pro 3.

## Filter by Network Attribute

You can filter networks by specific attributes. These attributes map to the Networks Table columns and are identified with the prefix **dot11.net**. Use the auto-complete function in the *Filter* field, or select a network, then:

Right-click over a field in the Networks Table > Choose **Apply as Filter**

<b>dot11.net.advertisement_mode*</b>	Mode used to advertise BSSID (transmitted, nontransmitted) <i>dot11.net.advertisement_mode == nontransmitted</i>
<b>dot11.net.amendments*</b>	Supported network amendments (d/e/h/i/j/k/p/r/s/u/v/w) <i>dot11.net.amendments ~~ d, dot11.net.amendments ~~ v</i>
<b>dot11.net.annotations</b>	Annotations <i>dot11.net.annotations == "3rd Floor", dot11.net.annotations ~~ floor</i>
<b>dot11.net.band</b>	Frequency band (2.4, 5 or 6* GHz) <i>dot11.net.band == 2.4, dot11.net.band == 5ghz</i>
<b>dot11.net.basic_rates</b>	Supported basic rates (Mbps) <i>dot11.net.basic_rates == "1, 2, 5.5, 11", dot11.net.basic_rates ~~ 12</i>
<b>dot11.net.beacon_airtime*</b>	Beacon airtime (ms) <i>dot11.net.beacon_airtime &gt; 0.5</i>
<b>dot11.net.beacon_interval</b>	Beacon interval (ms) <i>dot11.net.beacon_interval == 102.4, dot11.net.beacon_interval &lt; 100</i>
<b>dot11.net.beacon_rate*</b>	Rate at which beacon frames are transmitted (Mbps) <i>dot11.net.beacon_rate == 1, dot11.net.beacon_rate &gt;= 11</i>
<b>dot11.net.bssid</b>	BSSID <i>dot11.net.bssid == B4:B6:86:AE:21:16, dot11.net.bssid ~~ 21:16</i>
<b>dot11.net.center_freq</b>	Center frequency (MHz) <i>dot11.net.center_freq == 5805, dot11.net.center_freq &lt; 5000</i>
<b>dot11.net.channel</b>	Channel <i>dot11.net.channel == 1, dot11.net.channel &gt;= 36</i>
<b>dot11.net.channel_util</b>	BSS Load channel utilization (%) <i>dot11.net.channel_util &gt;= 10, dot11.net.channel_util &lt; 50%</i>
<b>dot11.net.channel_width</b>	Channel width (MHz) <i>dot11.net.channel_width == 40, dot11.net.channel_width &gt; 20</i>
<b>dot11.net.clients*</b>	Number of associated clients detected <i>dot11.net.clients &gt; 3</i>
<b>dot11.net.country_code</b>	Country code <i>dot11.net.country_code == US</i>
<b>dot11.net.device_name</b>	Device name <i>dot11.net.device_name == AP123, dot11.net.device_name ~~ AP</i>
<b>dot11.net.fast_transition</b>	Fast BSS transition <i>dot11.net.fast_transition == OTA, dot11.net.fast_transition == OTD</i>
<b>dot11.net.generation</b>	Generation (4, 5, or 6) <i>dot11.net.generation == 4, dot11.net.generation &gt;= 5</i>
<b>dot11.net.ie_count*</b>	Number of information elements in beacon or probe response frames <i>dot11.net.ie_count == 10, dot11.net.ie_count &gt;= 15</i>
<b>dot11.net.ie_total_length*</b>	Total length of information elements (bytes) <i>dot11.net.ie_length &gt; 300</i>

## Filter by Network Attribute (cont.)

<b>dot11.net.max_basic_rate*</b>	Maximum supported basic rate (Mbps) <i>dot11.net.max_basic_rate == 54, dot11.net.max_basic_rate &gt;= 24</i>
<b>dot11.net.max_rate</b>	Maximum supported rate (Mbps) <i>dot11.net.max_rate == 300, dot11.net.max_rate &gt;= 600</i>
<b>dot11.net.min_basic_rate*</b>	Minimum supported basic rate (Mbps) <i>dot11.net.min_basic_rate == 1, dot11.net.min_basic_rate &gt;= 24</i>
<b>dot11.net.min_rate</b>	Minimum supported rate (Mbps) <i>dot11.net.min_rate == 1, dot11.net.min_rate &lt;= 5.5</i>
<b>dot11.net.mode</b>	Network mode (a/b/g/n/ac/ax) <i>dot11.net.mode == a/g/n, dot11.net.mode == ax</i>
<b>dot11.net.noise</b>	Noise (dBm) <i>dot11.net.noise &gt;= -90</i>
<b>dot11.net.protection_mode</b>	HT protection mode <i>dot11.net.protection_mode == "Non-HT Mixed", dot11.net.protection_mode != "None"</i>
<b>dot11.net.security</b>	Security mode <i>dot11.net.security == "WPA2 (PSK)", dot11.net.security == OWE</i>
<b>dot11.net.signal</b>	Signal strength (dBm) <i>dot11.net.signal &gt;= -72</i>
<b>dot11.net.snr</b>	Signal-to-noise ratio (dB) <i>dot11.net.snr &gt;= 25</i>
<b>dot11.net.ssid</b>	Network name (SSID) <i>dot11.net.ssid == intuitibits, dot11.net.ssid ~~ guest</i>
<b>dot11.net.stations</b>	BSS Load station count <i>dot11.net.stations == 0, dot11.net.stations &gt; 10</i>
<b>dot11.net.streams</b>	Number of spatial streams <i>dot11.net.streams == 1, dot11.net.streams &gt;= 3</i>
<b>dot11.net.type</b>	Network type (ad-hoc, mesh, or infrastructure) <i>dot11.net.type == ad-hoc, dot11.net.type == mesh, dot11.net.type == infrastructure</i>
<b>dot11.net.vendor</b>	Vendor <i>dot11.net.vendor == "Ruckus Wireless", dot11.net.vendor ~~ Aruba</i>
<b>dot11.net.wide_channel*</b>	Wide channel <i>dot11.net.wide_channel == 42, dot11.net.wide_channel == 155</i>
<b>dot11.net.wps</b>	Wi-Fi Protected Setup <i>dot11.net.wps == Configured, dot11.net.wps == Locked</i>

**Note:** If you filter by the network attribute name only, for example, **dot11.net.country\_code**, only the networks with this attribute are displayed.

## Filter by Information Element Field

You can filter networks by specific information element fields\*. The prefix **dot11.** identifies more than 680 fields (except for the prefix **dot11.net**, which identifies network attributes). Use the auto-complete function in the *Filter* field, or select a network, then:

Go to Advanced Details > Right-click over a field or subfield > Choose **Apply as Filter**