WiFi Explorer / WiFi Explorer Pro 3 Filters Cheat Sheet

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Filter by Keyword

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

Combine or Negate Filters

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

==	Equal	Numerical and text values
!=	Not equal	Numerical and text values
~~	Contains	Text values
!~	Does not contain	Text values
>	Greater than	Numerical values
>=	Greater or equal than	Numerical values
<	Less than	Numerical values
<=	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***

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

Filter by Network Attribute (cont.)

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

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***

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