
airwaveapiclient Documentation

Release 0.1.10

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2018-08-25 03:49:45

Contents

1	Introduction	3
1.1	Supported features	3
2	Requirements	5
2.1	Python	5
2.2	AirWave	5
3	Installation	7
3.1	PyPI	7
3.2	Github	7
4	User Guide	9
4.1	AirWaveAPIClient	10
4.1.1	init	10
4.1.2	login	10
4.1.3	logout	10
4.1.4	ap_list	10
4.1.5	ap_detail	10
4.1.6	client_detail	10
4.1.7	rogue_detail	10
4.1.8	latest_report	10
4.2	APList	10
4.2.1	init	10
4.3	APDetail	10
4.3.1	init	10
4.4	APGraph	10
4.4.1	init	11
4.4.2	client_count_802dot11bgn	11
4.4.3	client_count_802dot11an	12
4.4.4	client_count_802dot11ac	12
4.4.5	bandwidth_802dot11bgn	12
4.4.6	bandwidth_802dot11an	13
4.4.7	bandwidth_802dot11ac	13
4.4.8	dot11_counters_802dot11bgn	14
4.4.9	dot11_counters_802dot11an	14
4.4.10	dot11_counters_802dot11ac	14
4.4.11	radio_channel_802dot11bgn	15

4.4.12	radio_channel_802dot11an	15
4.4.13	radio_channel_802dot11ac	15
4.4.14	radio_noise_802dot11bgn	16
4.4.15	radio_noise_802dot11an	16
4.4.16	radio_noise_802dot11ac	17
4.4.17	radio_power_802dot11bgn	17
4.4.18	radio_power_802dot11an	17
4.4.19	radio_power_802dot11ac	18
4.4.20	radio_errors_802dot11bgn	18
4.4.21	radio_errors_802dot11an	18
4.4.22	radio_errors_802dot11ac	19
4.4.23	radio_goodput_802dot11bgn	19
4.4.24	radio_goodput_802dot11an	20
4.4.25	radio_goodput_802dot11ac	20
4.4.26	channel_utilization_802dot11bgn	20
4.4.27	channel_utilization_802dot11an	21
4.4.28	channel_utilization_802dot11ac	21
4.5	Report	22
4.5.1	init	22
4.6	Sample code	22
5	History	23
5.1	0.1.10 (2018-08-25)	23
5.2	0.1.9 (2017-10-13)	23
5.3	0.1.8 (2017-06-30)	23
5.4	0.1.7 (2015-09-14)	23
5.5	0.1.6 (2015-09-09)	23
5.6	0.1.5 (2015-09-07)	24
5.7	0.1.4 (2015-09-07)	24
5.8	0.1.3 (2015-08-17)	24
5.9	0.1.2 (2015-08-03)	24
5.10	0.1.1 (2015-08-02)	24
5.11	0.1.0 (2015-08-01)	24
6	Indices and tables	25

Contents:

CHAPTER 1

Introduction

Airwaveapiclient is a utility tool for Aruba Networks AirWave users. This module connects to AirWave and gets the information such as the access point list, detail, client, etc.

1.1 Supported features

Currently airwaveapiclient can:

- Get access point list (XML).
- Get access point detail (XML).
- Get client detail (XML).
- Get rogue detail (XML).
- Get latest report (XML).
- Make access point graph url.

CHAPTER 2

Requirements

2.1 Python

- Python2.7
- Python3.3
- Python3.4

2.2 AirWave

Checked below versions.

- AirWave 7.5
- AirWave 8.0

CHAPTER 3

Installation

3.1 PyPI

```
1 pip install airwaveapiclient
```

3.2 Github

```
1 git clone https://github.com/mtoshi/airwaveapiclient
2 cd airwaveapiclient
3 sudo python setup.py install
```


CHAPTER 4

User Guide

4.1 AirWaveAPIClient

4.1.1 init

4.1.2 login

4.1.3 logout

4.1.4 ap_list

4.1.5 ap_detail

4.1.6 client_detail

4.1.7 rogue_detail

4.1.8 latest_report

4.2 APList

4.2.1 init

4.3 APDetail

4.3.1 init

4.4 APGraph

```
class ap_graph.APGraph(url, obj)
```

Aruba networks AirWave Graph.

Chapter 4. User Guide

Attributes:

- url (str)** AirWave URL.
- path (str)** Graph path.
- default_start_time(int)** Graph start default time.
- default_end_time(int)** Graph end default time.

4.4.1 init

APGraph.**__init__**(*url, obj*)

Initialize AirWaveAPIClient.

Args:

- url (str)** AirWave URL.
- obj (collections.OrderedDict)** APList element.

Usage:

```
>>> from airwaveapiclient import AirWaveAPIClient
>>> from airwaveapiclient import APGraph
>>> from airwaveapiclient import APList
>>>
>>> url = 'http://192.168.1.1/'
>>>
>>> airwave = AirWaveAPIClient(username='admin',
>>>                         password='xxxxx',
>>>                         url=url)
>>>
>>> airwave.login()
>>> ap_list = airwave.ap_list()
>>>
>>> objs = APList(ap_list)
>>> for obj in objs:
...     ap_graph = APGraph(url, obj)
...     ap_graph.client_count_802dot11an()
...
'http://x.x.x.x/nf/rrd_graph?
    end=0s&id=1&radio_index=2&start=-7200s&type=ap_client_count'
'http://x.x.x.x/nf/rrd_graph?
    end=0s&id=2&radio_index=2&start=-7200s&type=ap_client_count'
'http://x.x.x.x/nf/rrd_graph?
    end=0s&id=3&radio_index=2&start=-7200s&type=ap_client_count'
>>> airwave.logout()
```

4.4.2 client_count_802dot11bgn

APGraph.**client_count_802dot11bgn**(*start=None, end=None*)

RRD graph URL for access point client count of radio type IEEE802.11BGN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.client_count_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
end=-0s&id=1&radio_index=1&start=-3600s&type=ap_client_count'
```

4.4.3 client_count_802dot11an

APGraph.client_count_802dot11an (*start=None, end=None*)

RRD graph URL for access point client count of radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.client_count_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
end=-0s&id=1&radio_index=2&start=-3600s&type=ap_client_count'
```

4.4.4 client_count_802dot11ac

APGraph.client_count_802dot11ac (*start=None, end=None*)

RRD graph URL for access point client count of radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.client_count_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
end=-0s&id=1&radio_index=2&start=-3600s&type=ap_client_count'
```

4.4.5 bandwidth_802dot11bgn

APGraph.bandwidth_802dot11bgn (*start=None, end=None*)

RRD graph URL for access point bandwidth of radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.bandwidth_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=1&radio_index=1&start=-3600s&type=ap_bandwidth'
```

4.4.6 bandwidth_802dot11an

APGraph.**bandwidth_802dot11an**(*start=None, end=None*)

RRD graph URL for access point bandwidth of radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.bandwidth_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=1&radio_index=2&start=-3600s&type=ap_bandwidth'
```

4.4.7 bandwidth_802dot11ac

APGraph.**bandwidth_802dot11ac**(*start=None, end=None*)

RRD graph URL for access point bandwidth of radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.bandwidth_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=3&radio_index=2&start=-3600s&type=ap_bandwidth'
```

4.4.8 dot11_counters_802dot11bgn

APGraph.**dot11_counters_802dot11bgn**(*start=None, end=None*)
RRD graph URL for access point dot11 counters of radio type IEEE802.11BGN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.dot11_counters_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=1&radio_index=1&start=-3600s&type=dot11_counters'
```

4.4.9 dot11_counters_802dot11an

APGraph.**dot11_counters_802dot11an**(*start=None, end=None*)
RRD graph URL for access point dot11 counters of radio type IEEE802.11AN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.dot11_counters_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=1&radio_index=2&start=-3600s&type=dot11_counters'
```

4.4.10 dot11_counters_802dot11ac

APGraph.**dot11_counters_802dot11ac**(*start=None, end=None*)
RRD graph URL for access point dot11 counters of radio type IEEE802.11AC.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.dot11_counters_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    end=-0s&id=3&radio_index=2&start=-3600s&type=dot11_counters'
```

4.4.11 radio_channel_802dot11bgn

`APGraph.radio_channel_802dot11bgn(start=None, end=None)`

RRD graph URL for radio channel for radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_channel_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=radio_channel'
```

4.4.12 radio_channel_802dot11an

`APGraph.radio_channel_802dot11an(start=None, end=None)`

RRD graph URL for radio channel for radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_channel_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=1&start=-3600s&type=radio_channel'
```

4.4.13 radio_channel_802dot11ac

`APGraph.radio_channel_802dot11ac(start=None, end=None)`

RRD graph URL for radio channel for radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_channel_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=1&start=-3600s&type=radio_channel'
```

4.4.14 radio_noise_802dot11bgn

APGraph.radio_noise_802dot11bgn(*start=None, end=None*)

RRD graph URL for radio noise for radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_noise_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=radio_noise'
```

4.4.15 radio_noise_802dot11an

APGraph.radio_noise_802dot11an(*start=None, end=None*)

RRD graph URL for radio noise for radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_noise_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=1&start=-3600s&type=radio_noise'
```

4.4.16 radio_noise_802dot11ac

`APGraph.radio_noise_802dot11ac(start=None, end=None)`
 RRD graph URL for radio noise for radio type IEEE802.11AC.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_noise_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
ap_uid=00%3A00%3A10%3A00%3A00%3A03&
end=-0s&radio_index=2&radio_interface=1&start=-3600s&type=radio_noise'
```

4.4.17 radio_power_802dot11bgn

`APGraph.radio_power_802dot11bgn(start=None, end=None)`
 RRD graph URL for radio power for radio type IEEE802.11BGN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_power_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
ap_uid=00%3A00%3A10%3A00%3A00%3A03&
end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=radio_power'
```

4.4.18 radio_power_802dot11an

`APGraph.radio_power_802dot11an(start=None, end=None)`
 RRD graph URL for radio power for radio type IEEE802.11AN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_power_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_power'
```

4.4.19 radio_power_802dot11ac

APGraph.**radio_power_802dot11ac**(*start=None, end=None*)

RRD graph URL for radio power for radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_power_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_power'
```

4.4.20 radio_errors_802dot11bgn

APGraph.**radio_errors_802dot11bgn**(*start=None, end=None*)

RRD graph URL for radio errors for radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_errors_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=radio_errors'
```

4.4.21 radio_errors_802dot11an

APGraph.**radio_errors_802dot11an**(*start=None, end=None*)

RRD graph URL for radio errors for radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_errors_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
ap_uid=00%3A00%3A10%3A00%3A00%3A03&
end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_errors'
```

4.4.22 radio_errors_802dot11ac

APGraph.**radio_errors_802dot11ac** (*start=None, end=None*)

RRD graph URL for radio errors for radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_errors_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
ap_uid=00%3A00%3A10%3A00%3A00%3A03&
end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_errors'
```

4.4.23 radio_goodput_802dot11bgn

APGraph.**radio_goodput_802dot11bgn** (*start=None, end=None*)

RRD graph URL for radio goodput for radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_goodput_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
ap_uid=00%3A00%3A10%3A00%3A00%3A03&
end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=radio_goodput'
```

4.4.24 radio_goodput_802dot11an

APGraph.**radio_goodput_802dot11an**(*start=None, end=None*)

RRD graph URL for radio goodput for radio type IEEE802.11AN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_goodput_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_goodput'
```

4.4.25 radio_goodput_802dot11ac

APGraph.**radio_goodput_802dot11ac**(*start=None, end=None*)

RRD graph URL for radio goodput for radio type IEEE802.11AC.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.radio_goodput_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=radio_goodput'
```

4.4.26 channel_utilization_802dot11bgn

APGraph.**channel_utilization_802dot11bgn**(*start=None, end=None*)

RRD graph URL for channel utilization for radio type IEEE802.11BGN.

Args:

start (int, optional) Graph start time(seconds ago). Default is -7200.

end (int, optional) Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.channel_utilization_802dot11bgn(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=1&radio_interface=2&start=-3600s&type=channel_utilization'
```

4.4.27 channel_utilization_802dot11an

`APGraph.channel_utilization_802dot11an(start=None, end=None)`
 RRD graph URL for channel utilization for radio type IEEE802.11AN.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.channel_utilization_802dot11an(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=channel_utilization'
```

4.4.28 channel_utilization_802dot11ac

`APGraph.channel_utilization_802dot11ac(start=None, end=None)`
 RRD graph URL for channel utilization for radio type IEEE802.11AC.

Args:

- start (int, optional)** Graph start time(seconds ago). Default is -7200.
- end (int, optional)** Graph end time(seconds ago). Default is None.

Returns:

str Graph URL string.

Usage:

```
>>> ap_graph.channel_utilization_802dot11ac(start=-3600)
'https://x.x.x.x/nf/rrd_graph?
    ap_uid=00%3A00%3A10%3A00%3A00%3A03&
    end=-0s&radio_index=2&radio_interface=2&start=-3600s&type=channel_utilization'
```

4.5 Report

4.5.1 init

4.6 Sample code

- Sample code: [Github](#)

CHAPTER 5

History

5.1 0.1.10 (2018-08-25)

Minor change for reliability.

5.2 0.1.9 (2017-10-13)

- Change method to generate URL path.

5.3 0.1.8 (2017-06-30)

- Added AMP stats and folder list methods.
- Changed documentation.

5.4 0.1.7 (2015-09-14)

- Changed some structures for stable into the APGraph methods.
- Changed documentation.

5.5 0.1.6 (2015-09-09)

- Added care of non existent graph url.
- Changed documentation.

5.6 0.1.5 (2015-09-07)

- Changed documentation.

5.7 0.1.4 (2015-09-07)

- Added latest report API.
- Changed documentation.

5.8 0.1.3 (2015-08-17)

- Added 802.11ac graph url.
- Changed documentation.

5.9 0.1.2 (2015-08-03)

- Changed documentation.

5.10 0.1.1 (2015-08-02)

- Changed documentation.

5.11 0.1.0 (2015-08-01)

- First release

CHAPTER 6

Indices and tables

- genindex
- modindex
- search

Symbols

`__init__()` (`ap_graph.APGraph` method), 11

A

`APGraph` (class in `ap_graph`), 10

B

`bandwidth_802dot11ac()` (`ap_graph.APGraph` method), 13

`bandwidth_802dot11an()` (`ap_graph.APGraph` method), 13

`bandwidth_802dot11bgn()` (`ap_graph.APGraph` method), 12

C

`channel_utilization_802dot11ac()` (`ap_graph.APGraph` method), 21

`channel_utilization_802dot11an()` (`ap_graph.APGraph` method), 21

`channel_utilization_802dot11bgn()` (`ap_graph.APGraph` method), 20

`client_count_802dot11ac()` (`ap_graph.APGraph` method), 12

`client_count_802dot11an()` (`ap_graph.APGraph` method), 12

`client_count_802dot11bgn()` (`ap_graph.APGraph` method), 11

D

`dot11_counters_802dot11ac()` (`ap_graph.APGraph` method), 14

`dot11_counters_802dot11an()` (`ap_graph.APGraph` method), 14

`dot11_counters_802dot11bgn()` (`ap_graph.APGraph` method), 14

R

`radio_channel_802dot11ac()` (`ap_graph.APGraph` method), 15

`radio_channel_802dot11an()` (`ap_graph.APGraph` method), 15

`radio_channel_802dot11bgn()` (`ap_graph.APGraph` method), 15

`radio_errors_802dot11ac()` (`ap_graph.APGraph` method), 19

`radio_errors_802dot11an()` (`ap_graph.APGraph` method), 18

`radio_errors_802dot11bgn()` (`ap_graph.APGraph` method), 18

`radio_goodput_802dot11ac()` (`ap_graph.APGraph` method), 20

`radio_goodput_802dot11an()` (`ap_graph.APGraph` method), 20

`radio_goodput_802dot11bgn()` (`ap_graph.APGraph` method), 19

`radio_noise_802dot11ac()` (`ap_graph.APGraph` method), 17

`radio_noise_802dot11an()` (`ap_graph.APGraph` method), 16

`radio_noise_802dot11bgn()` (`ap_graph.APGraph` method), 16

`radio_power_802dot11ac()` (`ap_graph.APGraph` method), 18

`radio_power_802dot11an()` (`ap_graph.APGraph` method), 17

`radio_power_802dot11bgn()` (`ap_graph.APGraph` method), 17