APIs for Web

Reporting APIs

Reporting queries can be used to fetch data from report groups, for all reports under a specific group, or for a specific report.

Synopsis	`GET /api/v2.0/reporting/report?resource_attribute` `GET /api/v2.0/reporting/report/counter?resource_attribute`

Supported Resource Attributes	Duration	This is a required parameter. All API queries should be accompanied with this parameter. `startdate=YYYY-MM-DDThh:mm:00.000Z&endDate=YYYY-MM-DDThh:mm:00.000Z` Aggregate report(s) for the specified duration.
	Query Type	• `query_type=graph` Receive data that can be represented as graphs. • `query_type=export` Receive data in the export format.
	Sorting	You should use both these parameters. If you use either, you will not receive data in the response. • `orderBy=<value>` Specify the attribute by which to order the data in the response. For example, `orderBy=total_clean_recipients` • `orderDir=<value>` Specify sort direction. The valid options are: • `asc` Order the results in ascending order. • `desc` Order the results in descending order.
	Lazy Loading	You should use both these parameters. If you use either, you will not receive data in the response. • `offset=<value>` Specify an offset value to retrieve a subset of records starting with the offset value. Offset works with limit, which determines how many records to retrieve starting from the offset. • `limit=<value>` Specify the number of records to retrieve.
	Data Retrieval Option	• `top=<value>` Specify the number of records with the highest values to return.
	Filtering	

		Filter parameters restrict the data to be included the response. • `filterValue=<value>` The value to search for. • `filterBy=<value>` Filter the data to be retrieved according to the filter property and value. • `filterOperator=<value>` The valid options are: • `begins_with` Filter the response data based on the value specified. This is not an exact value. • `is` Filter the response data based on the exact value specified.
	Device	• `device_type=wsa` Specify the device type. This is a required parameter. All API queries must be accompanied with this parameter. • `device_name=<value>` Specify the device name.
Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Comparing API Data with the Web Interface Data

The new web interface uses the AsyncOS APIs to fetch data with the duration attribute specified in the GMT time zone. If you plan to compare the data from your API query with the new web interface data, ensure that your API query has the same time range (in ISO8601 time format) as the new web interface API query.

Examples

Examples for the types of reporting queries are shown below:

• Retrieving a Single Value for a Counter, on page 4
• Retrieving Multiple Values for a Counter, on page 4
• Retrieving Single Values for Each Counter in a Counter Group, on page 5
• Retrieving Multiple Values for Multiple Counters, on page 6
• Retrieving Multiple Values for Multiple Counters, with Multiple Values for Each Counter, on page 7

Retrieving a Single Value for a Counter

This example shows a query to retrieve a single value for a counter.

Sample Request

```
GET /wsa/api/v2.0/reporting/web_malware_category_malware_name_user_detail/
blocked_malware?startDate=2017-11-14T02:00+00:00&endDate=2018-02-18T01:00+00:00&
filterValue=23&filterBy=na&filterOperator=is&device_type=wsa
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: wsa.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Mon, 26 Nov 2018 16:29:33 GMT
Content-type: application/json
Content-Length: 193
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": 4
    },
    "data": {
        "type": "blocked_malware",
        "resultSet": {
            "blocked_malware": [
                {
                    "10.8.93.12": 137511
                },
                {
                    "10.8.93.20": 112554
                },
                {
                    "10.8.93.11": 92839
                },
                {
                    "10.225.98.234": 6
                }
            ]
        }
    }
}
```

Retrieving Multiple Values for a Counter

This example shows a query to retrieve multiple values for a counter, with the order direction and device type parameters.

Sample Request

```
GET /wsa/api/v2.0/reporting/web_services_summary?orderBy=transaction_total&
orderDir=desc&startDate=2018-08-16T18:00:00.000Z&endDate=2018-11-15T10:00:00.000Z&device_type=wsa
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.8.159.21:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Sun, 18 Nov 2018 15:38:52 GMT
Content-type: application/json
Content-Length: 403
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": -1
    },
    "data": {
        "type": "web_services_summary",
        "resultSet": [
            {"detected_by_traffic_monitor": 0},
            {"detected_malware_total": 42},
            {"high_risk_transaction_total": 7109},
            {"blocked_by_admin_policy": 0},
            {"detected_by_amp": 0},
            {"allowed_transaction_total": 26369},
            {"transaction_total": 33478},
            {"blocked_or_warned_by_webcat": 29},
            {"blocked_by_wbrs": 7038},
            {"blocked_by_avc": 0}
        ]
    }
}
```

Retrieving Single Values for Each Counter in a Counter Group

A counter group may have multiple counters. This example shows a query to retrieve single values for each counter in a counter group, with the filter, device type, and top parameters.

Sample Request

```
GET /wsa/api/v2.0/reporting/web_application_type_detail/bw_not_limited?startDate=
2017-09-10T19:00:00.000Z&endDate=2018-09-24T23:00:00.000Z&device_type=wsa&filterValue=
F&filterOperator=begins_with&filterBy=na&top=2
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.8.159.21:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Sun, 18 Nov 2018 15:48:21 GMT
Content-type: application/json
Content-Length: 138
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken
{
    "meta": {
        "totalCount": 2
    },
    "data": {
        "type": "bw_not_limited",
        "resultSet": {
            "bw_not_limited": [
                {"File Sharing": 84},
                {"Facebook": 42}
            ]
        }
    }
}
```

Retrieving Multiple Values for Multiple Counters

This example shows a query to retrieve multiple values for multiple counters, with the offset and limit, and device type parameters.

Sample Request

```
GET /wsa/api/v2.0/reporting/web_services_summary?offset=0&limit=20&
startDate=2020-04-10T07:00:00.000Z&endDate=2020-04-11T08:00:00.000Z&device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: 692fd2a6-3da7-4bc1-b581-f4b478b5a304
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Sat, 11 Apr 2020 07:42:04 GMT
Content-type: application/json
Content-Length: 387
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"meta": {"totalCount": -1}, "data": {"type": "web_services_summary", "resultSet":
[{"detected_by_traffic_monitor": 0}, {"detected_malware_total": 0},
{"high_risk_transaction_total": 0},
{"blocked_by_admin_policy": 0}, {"detected_by_amp": 0}, {"allowed_transaction_total": 0},
```

```
{"transaction_total": 0}, {"blocked_or_warned_by_webcat": 0}, {"blocked_by_wbrs": 0},
{"blocked_by_avc": 0}]}}
```

Retrieving Multiple Values for Multiple Counters, with Multiple Values for Each Counter

This example shows a query to retrieve multiple values for multiple counters, with the offset and limit, and query type parameters.

Sample Request

```
GET /wsa/api/v2.0/reporting/web_application_name_application_type_detail?startDate
=2017-08-16T18:00:00.000Z&endDate=2018-11-15T15:00:00.000Z&device_type=wsa&query_type=export
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.8.159.21:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Sun, 18 Nov 2018 15:55:50 GMT
Content-type: application/json
Content-Length: 1258
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": -1
    },
    "data": {
        "type": "web_application_name_application_type_detail",
        "resultSet": {
            "time_intervals": [
                {
                    "end_timestamp": 1538332199,
                    "counter_values": [
                        {
                            "counter_values": [
                                42,
                                25932,
                                0,
                                42,
                                0,
                                42,
                                0
                            ],
                            "application_type": "File Sharing",
                            "counter_key": "4shared"
                        },
                        {
                            "counter_values": [
                                2,
                                109614,
                                0,
```

```
            2,
            0,
            2,
            0
        ],
        "application_type": "Media",
        "counter_key": "Dailymotion"
    },
    {
        "counter_values": [
            42,
            20748,
            0,
            42,
            0,
            42,
            0
        ],
        "application_type": "Facebook",
        "counter_key": "Facebook General"
    },
    {
        "counter_values": [
            42,
            20580,
            0,
            42,
            0,
            42,
            0
        ],
        "application_type": "File Sharing",
        "counter_key": "MediaFire"
    },
    {
        "counter_values": [
            229,
            158838,
            0,
            229,
            0,
            229,
            0
        ],
        "application_type": "Social Networking",
        "counter_key": "Twitter"
    },
    {
        "counter_values": [
            1,
            86334,
            0,
            1,
            0,
            1,
            0
        ],
        "application_type": "Instant Messaging",
        "counter_key": "Wechat_web"
    },
    {
        "counter_values": [
            44,
            40876,
```

```
                                0,
                                44,
                                0,
                                44,
                                0
                            ],
                            "application_type": "Media",
                            "counter_key": "YouTube"
                        }
                    ],
                    "begin_timestamp": 1530383400,
                    "end_time": "2018-09-30T23:59:00.000Z",
                    "begin_time": "2018-07-01T00:00:00.000Z"
                }
            ],
            "counter_names": [
                "bw_not_limited",
                "bandwidth_used",
                "bw_limited",
                "completed_transaction_total",
                "blocked_transaction_total",
                "transaction_total",
                "blocked_by_avc"
            ]
        }
    }
}
```


Schedule and Archive APIs

Schedule APIs

Synopsis	`GET /wsa/api/v2.0/config/periodic_reports?resource_attribute`
	
	`POST wsa/api/v2.0/config/periodic_reports?resource_attribute`
	
	`PUT /wsa/api/v2.0/config/periodic_reports/periodic_report_id?resource_attribute`
	
	`DELETE /wsa/api/v2.0/config/periodic_reports?resource_attribute`

Supported Resource Attributes	Sorting	You should use both these parameters. If you use either, you will not receive data in the response. • `orderBy=<value>` The valid options are: • `periodic_report_display_name` Order the results based on the display name of the report. • `periodic_report_title` Order the results based on the type of the report. • `periodic_report_type` Order the results based on the type of the report. • `periodic_report_time_range` Order the results based on the time range of the report. • `periodic_report_delivery` Order the results based on the delivery options of the report. • `periodic_report_format` Order the results based on the format of the report. • `periodic_report_schedule_type` Order the results based on the type of the schedule selected for the report. • `periodic_report_tier` Order the results based on the required web gateway. • `periodic_report_next_run_date` Order the results based on the scheduling options of the report. • `orderDir=<value>` Specify sort direction. The valid options are: • `asc` Order the results in ascending order. • `desc` Order the results in descending order.

	Lazy Loading	You should use both these parameters. If you use either, you will not receive data in the response. • `offset=<value>` Specify an offset value to retrieve a subset of records starting with the offset value. Offset works with limit, which determines how many records to retrieve starting from the offset. • `limit=<value>` Specify the number of records to retrieve.
	Device	• `device_type=wsa` Specify the device type. This is a required parameter. All API queries must be accompanied with this parameter.
Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Examples

The following are some examples for the types of schedule reports queries:

- Retrieving Scheduling Reports, on page 11
- Retrieving the Details of a Schedule Report Entry, on page 13
- Adding a Scheduled Report Entry, on page 13
- Editing a Scheduled Report Entry, on page 14
- Deleting Scheduled Reports, on page 15

Retrieving Scheduling Reports

The following example shows how to retrieve the list of all available scheduled report entries:

Sample Request

```
GET /wsa/api/v2.0/config/periodic_reports?device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: 2a8a85d4-50cc-49fd-9ac5-20e07775e1db
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 10 Apr 2020 10:41:02 GMT
Content-type: application/json
Content-Length: 3691
Connection: close
Access-Control-Allow-Origin: *
```

```
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": {"periodic_reports": [{"20200409064843_Web Sites Report_calendar_week":
{"periodic_report_type": "coeus", "periodic_report_schedule": {"periodic_report_second":
0,
"periodic_report_day": "", "periodic_report_month": "", "periodic_report_minute": 0,
"periodic_report_weekday": "", "periodic_report_year": "", "periodic_report_hour": 1,
"periodic_report_schedule_type": "Daily"}, "periodic_report_options": {"periodic_report_rows":
 20,
"periodic_report_charts": {"wsa_web_sites_top_blocked_domains":
"DOMAINS.BLOCKED_TRANSACTION_TOTAL",
"wsa_web_sites_top_domains": "DOMAINS.TRANSACTION_TOTAL"}, "periodic_report_format": "PDF",

"periodic_report_lang": "en-us", "periodic_report_sort_columns":
{"wsa_web_sites_domains_matched":
"DOMAINS.TRANSACTION_TOTAL"}, "periodic_report_time_range": "Previous calendar month"},
"periodic_report_user_name": "admin", "periodic_report_product_type": "WSA",
"periodic_report_type_name": "Web Sites", "periodic_report_delivery": "Archived Only",
"periodic_report_recipients": [], "periodic_report_tier": "All Web Appliances",
"periodic_report_next_run_date": "11 Apr 2020 01:00 (GMT)", "periodic_report_title": "Web
Sites Report_2 Edit"}},
{"20200402042756_Users_calendar_week": {"periodic_report_type": "coeus",
"periodic_report_schedule":
{"periodic_report_second": 0, "periodic_report_day": "", "periodic_report_month": "",
"periodic_report_minute": 0,
"periodic_report_weekday": "", "periodic_report_year": "", "periodic_report_hour": 1,
"periodic_report_schedule_type": "Daily"}, "periodic_report_options": {"periodic_report_rows":
 10,
"periodic_report_charts": {"wsa_users_top_users_bandwidth_used":
"WEB_USER_DETAIL.BANDWIDTH_USED",
"wsa_users_top_users_blocked_transactions": "WEB_USER_DETAIL.BLOCKED_TRANSACTION_TOTAL"},
"periodic_report_format": "PDF", "periodic_report_lang": "en-us",
"periodic_report_sort_columns":
{"wsa_users_users_table": "WEB_USER_DETAIL.BLOCKED_TRANSACTION_TOTAL"},
"periodic_report_time_range":
"Previous 7 calendar days"}, "periodic_report_user_name": "admin",
"periodic_report_product_type": "WSA",
"periodic_report_type_name": "Users", "periodic_report_delivery": "Emailed Only",
"periodic_report_recipients": ["abc@cic.com"], "periodic_report_tier": "All Web Appliances",

"periodic_report_next_run_date": "11 Apr 2020 01:00 (GMT)", "periodic_report_title":
"Users"}},
{"20200403094854_Application Visibility_calendar_month": {"periodic_report_type": "coeus",

"periodic_report_schedule": {"periodic_report_second": 0, "periodic_report_day": "",
"periodic_report_month": "", "periodic_report_minute": 0, "periodic_report_weekday": "",
"periodic_report_year": "", "periodic_report_hour": 1, "periodic_report_schedule_type":
"Daily"},
"periodic_report_options": {"periodic_report_rows": 10, "periodic_report_charts":
{"wsa_applications_blocked":
"WEB_APPLICATION_NAME_APPLICATION_TYPE_DETAIL.BLOCKED_BY_AVC", "wsa_applications_top_types":

"WEB_APPLICATION_TYPE_DETAIL.TRANSACTION_TOTAL"}, "periodic_report_format": "PDF",
"periodic_report_lang": "en-us", "periodic_report_sort_columns": {"wsa_applications_total":

"WEB_APPLICATION_NAME_APPLICATION_TYPE_DETAIL.TRANSACTION_TOTAL",
"wsa_applications_types_total":
"WEB_APPLICATION_TYPE_DETAIL.BANDWIDTH_USED"}, "periodic_report_time_range": "Previous
calendar month"},
"periodic_report_user_name": "admin", "periodic_report_product_type": "WSA",
"periodic_report_type_name": "Application Visibility", "periodic_report_delivery": "Archived
```

```
 Only",
"periodic_report_recipients": [], "periodic_report_tier": "All Web Appliances",
"periodic_report_next_run_date": "11 Apr 2020 01:00 (GMT)", "periodic_report_title":
"Application Visibility"}}],
"meta": {"totalCount": 3}}}
```

Retrieving the Details of a Schedule Report Entry

The following example shows how to retrieve the details of one particular scheduled report by passing the report ID:

Sample Request

```
GET /wsa/api/v2.0/config/periodic_reports/20200402042756_Users_calendar_week?
device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: b7038e94-4182-4b35-9aae-73a1a1e35249
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 10 Apr 2020 10:43:07 GMT
Content-type: application/json
Content-Length: 1130
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": {"periodic_reports": {"20200402042756_Users_calendar_week": {"periodic_report_type":

"coeus", "periodic_report_schedule": {"periodic_report_second": 0, "periodic_report_day":
"",
"periodic_report_month": "", "periodic_report_minute": 0, "periodic_report_weekday": "",
"periodic_report_year": "", "periodic_report_hour": 1, "periodic_report_schedule_type":
"Daily"},
"periodic_report_options": {"periodic_report_rows": 10, "periodic_report_charts": [{"column":

"Bandwidth Used", "Chart": "Top Users (Right)"}, {"column": "Transactions Blocked", "Chart":

"Top Users (Left)"}], "periodic_report_format": "PDF", "periodic_report_lang": "en-us",
"periodic_report_sort_columns": [{"column": "Transactions Blocked", "table": "Users"}],
"periodic_report_time_range": "Previous 7 calendar days"}, "periodic_report_user_name":
"admin",
"periodic_report_product_type": "WSA", "periodic_report_type_name": "Users",
"periodic_report_delivery": "Emailed Only", "periodic_report_recipients": ["abc@cic.com"],

"periodic_report_tier": "All Web Appliances", "periodic_report_next_run_date": 1586566800,

"periodic_report_title": "Users"}}}}
```

Adding a Scheduled Report Entry

The following example shows how to add a scheduled report with report type, report title, device type and other options:

Sample Request

```
POST /wsa/api/v2.0/config/periodic_reports?device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: 32a1d150-a8a0-47f2-b9bf-2c7c5b2e8e8a
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
Content-Type: text/plain
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
content-length: 833
Connection: keep-alive

{"data":{"periodic_reports":[{"periodic_report_delivery":"Emailed and Archived",
"periodic_report_options":{"periodic_report_format":"pdf","periodic_report_lang":"en-us",
"periodic_report_rows":10,"periodic_report_sort_columns":[{"table":"Domains Matched","column":
"Total Transactions"}],"periodic_report_charts":[{"Chart":"Top Domains (Left)","Data to
display":
"Total Transactions"},{"Chart":"Top Domains (Right)","Data to display":"Transactions
Blocked"}],
"periodic_report_time_range":"Previous 7 calendar days"},"periodic_report_title":"Web Sites
 Report",
"periodic_report_type":"coeus","periodic_report_type_name":"Web Sites",
"periodic_report_user_name":"admin","periodic_report_schedule":{"periodic_report_hour":1,
"periodic_report_minute":0,"periodic_report_schedule_type":"daily"},
"periodic_report_recipients":["abc@test.com"]}]}}
```

Sample Response

```
HTTP/1.1 201 Created
Date: Thu, 09 Apr 2020 06:50:18 GMT
Content-type: application/json
Content-Length: 49
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": "Scheduled Report created Successfully"}
```

Editing a Scheduled Report Entry

The following example shows how to modify a scheduled report with a schedule report ID:

Sample Request

```
PUT /wsa/api/v2.0/config/periodic_reports/20200409064843_Web%20Sites%20Report_calendar_week?
device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: 2d168727-6e8a-470a-909f-0af9a5dc1e85
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
Content-Type: text/plain
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
content-length: 786
Connection: keep-alive

{"data":{"periodic_reports":[{"periodic_report_delivery":"Archived Only",
```

"periodic_report_options":{"periodic_report_format":"pdf","periodic_report_lang":"en-us",
"periodic_report_rows":20,"periodic_report_sort_columns":[{"table":"Domains Matched","column":
"Total Transactions"}],"periodic_report_charts":[{"Chart":"Top Domains (Left)","Data to
display":
"Total Transactions"},{"Chart":"Top Domains (Right)","Data to display":"Transactions
Blocked"}],
"periodic_report_time_range":"Previous calendar month"},"periodic_report_title":
"Web Sites Report_1 Edit","periodic_report_type":"coeus","periodic_report_type_name":
"Web Sites","periodic_report_user_name":"admin","periodic_report_schedule":
{"periodic_report_hour":1,"periodic_report_minute":0,"periodic_report_schedule_type":"daily"}}]}}

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 09 Apr 2020 06:54:19 GMT
Content-type: application/json
Content-Length: 49
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": "Scheduled Report Updated Successfully"}
```

Deleting Scheduled Reports

The following example shows how to delete a scheduled report with device type and a schedule report ID:

Sample Request

```
DELETE /wsa/api/v2.0/config/periodic_reports?id=20200409065018_Web%20Sites
%20Report_calendar_week&device_type=wsa HTTP/1.1
cache-control: no-cache
Postman-Token: 7e09e87c-40c2-410a-a99e-98f73c6e0bf8
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
content-length: 0
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 09 Apr 2020 07:07:05 GMT
Content-type: application/json
Content-Length: 52
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken
{"data": {"message": "1 item deleted successfully"}}
```

Archive APIs

Synopsis	`GET /wsa/api/v2.0/config/archived_reports?resource_attribute`
	`GET wsa/api/v2.0/config/archived_reports/view/archived_report_id?resource_attribute`
	`POST /wsa/api/v2.0/config/archived_reports?resource_attribute`
	`DELETE /wsa/api/v2.0/config/archived_reports?id=archived_report_id`(To delete single report)
	`DELETE /wsa/api/v2.0/config/archived_reports?id=all` (To delete all archived reports)

Supported Resource Attributes	Sorting	You should use both these parameters. If you use either, you will not receive data in the response. • `orderBy=<value>` The valid options are: • `periodic_report_generated` Order the results based on the date and time the report is generated. • `periodic_report_display_name` Order the results based on the display name of the report. • `periodic_report_format` Order the results based on the format of the report. • `periodic_report_title` Order the results based on the type of the report. • `periodic_report_time_range` Order the results based on the time range of the report. • `periodic_report_type` Order the results based on the type of the report. • `periodic_report_tier` Order the results based on the required email gateway. • `orderDir=<value>` Specify sort direction. The valid options are: • `asc` Order the results in ascending order. • `desc` Order the results in descending order.
	Lazy Loading	You should use both these parameters. If you use either, you will not receive data in the response. • `offset=<value>` Specify an offset value to retrieve a subset of records starting with the offset value. Offset works with limit, which determines how many records to retrieve starting from the offset. • `limit=<value>` Specify the number of records to retrieve.

	Filtering	Filter parameters restrict the data to be included the response. • `filterByTitle=<value>` Filter the data to be retrieved according to the title of the report and value. • `filterByReportTypeName=<value>` Filter the data to be retrieved according to the type of the report and value. • `filterByTimeRange=<value>` Filter the data to be retrieved according to the time range of the report and value.
	Device	• `device_type=wsa` Specify the device type. This is a required parameter. All API queries must be accompanied with this parameter.
Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Examples

The following are some examples for the types of archived reports queries:

- Searching Archived Reports, on page 18
- Retrieving Archived Reports, on page 19
- Retrieving the Details of a Archive Report Entry, on page 20
- Adding an Archive Report Entry, on page 21
- Deleting an Archived Report Entry, on page 22

Searching Archived Reports

The following example shows how to search for a list of top 20 archived reports based on the report title and sorted by the date and time the report is generated, in ascending order:

Sample Request

```
GET /wsa/api/v2.0/config/archived_reports?orderBy=periodic_report_title&
device_type=wsa&filterByTitle=Application&orderDir=asc&offset=0&limit=20& HTTP/1.1
cache-control: no-cache
Postman-Token: e1f6fac5-f047-4ab5-9be2-467132a3b29d
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 09 Apr 2020 07:27:25 GMT
Content-type: application/json
Content-Length: 1262
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": {"meta": {"totalCount": 3}, "archived_reports": [{"20200404010011_Application
Visibility_calendar_month.pdf": {"periodic_report_format": "PDF",
"periodic_report_type_name": "Application Visibility", "periodic_report_generated":
"04 Apr 2020 01:00 (GMT)", "periodic_report_time_range": "Previous calendar month",
"periodic_report_tier": "All Web Appliances", "periodic_report_title": "Application
Visibility",
"periodic_report_product_type": "wsa"}}, {"20200409010011_Application
Visibility_calendar_month.pdf":
{"periodic_report_format": "PDF", "periodic_report_type_name": "Application Visibility",
"periodic_report_generated": "09 Apr 2020 01:00 (GMT)", "periodic_report_time_range":
"Previous calendar month", "periodic_report_tier": "All Web Appliances",
"periodic_report_title":
"Application Visibility", "periodic_report_product_type": "wsa"}},
{"20200408010011_Application
Visibility_calendar_month.pdf": {"periodic_report_format": "PDF", "periodic_report_type_name":

"Application Visibility", "periodic_report_generated": "08 Apr 2020 01:00 (GMT)",
"periodic_report_time_range": "Previous calendar month", "periodic_report_tier":
"All Web Appliances", "periodic_report_title": "Application Visibility",
"periodic_report_product_type": "wsa"}}]}}
```

Retrieving Archived Reports

The following example shows how to retrieve a list of top 25 archived reports sorted by the time range of the report in descending order:

Sample Request

```
GET /wsa/api/v2.0/config/archived_reports?device_type=wsa&limit=25&
offset=0&orderBy=periodic_report_generated&orderDir=desc HTTP/1.1
cache-control: no-cache
Postman-Token: 9cf1ebad-774d-4e86-af29-fd6d25c446ce
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 10 Apr 2020 10:48:31 GMT
Content-type: application/json
Content-Length: 2792
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": {"meta": {"totalCount": 7}, "archived_reports": [{"20200410010016_Application
Visibility_
```

```
calendar_month.pdf": {"periodic_report_format": "PDF", "periodic_report_type_name":
"Application Visibility", "periodic_report_generated": "10 Apr 2020 01:00 (GMT)",
"periodic_report_time_range": "Previous calendar month", "periodic_report_tier": "All Web
Appliances",
"periodic_report_title": "Application Visibility", "periodic_report_product_type": "wsa"}},

{"20200410010009_Web Sites Report_2 Edit_calendar_month.pdf": {"periodic_report_format":
"PDF",
"periodic_report_type_name": "Web Sites", "periodic_report_generated": "10 Apr 2020 01:00
(GMT)",
"periodic_report_time_range": "Previous calendar month", "periodic_report_tier": "All Web
Appliances",
"periodic_report_title": "Web Sites Report_2 Edit", "periodic_report_product_type": "wsa"}},

{"20200409071005_URL Categories_calendar_week.pdf": {"periodic_report_format": "PDF",
"periodic_report_type_name": "URL Categories", "periodic_report_generated": "09 Apr 2020
07:10 (GMT)",
"periodic_report_time_range": "Previous 7 calendar days", "periodic_report_tier": "All Web
 Appliances",
"periodic_report_title": "URL Categories", "periodic_report_product_type": "wsa"}},
{"20200409070946_Web Sites_calendar_week.pdf": {"periodic_report_format": "PDF",
"periodic_report_type_name": "Web Sites", "periodic_report_generated": "09 Apr 2020 07:09
(GMT)",
"periodic_report_time_range": "Previous 7 calendar days", "periodic_report_tier":
"All Web Appliances", "periodic_report_title": "Web Sites", "periodic_report_product_type":
 "wsa"}},
{"20200409010011_Application Visibility_calendar_month.pdf": {"periodic_report_format":
"PDF", "periodic_report_type_name": "Application Visibility", "periodic_report_generated":

"09 Apr 2020 01:00 (GMT)", "periodic_report_time_range": "Previous calendar month",
"periodic_report_tier": "All Web Appliances", "periodic_report_title": "Application
Visibility",
"periodic_report_product_type": "wsa"}}, {"20200408010011_Application
Visibility_calendar_month.pdf":
{"periodic_report_format": "PDF", "periodic_report_type_name": "Application Visibility",
"periodic_report_generated": "08 Apr 2020 01:00 (GMT)", "periodic_report_time_range":
"Previous calendar month", "periodic_report_tier": "All Web Appliances",
"periodic_report_title":
"Application Visibility", "periodic_report_product_type": "wsa"}},
{"20200404010011_Application
Visibility_calendar_month.pdf": {"periodic_report_format": "PDF", "periodic_report_type_name":

"Application Visibility", "periodic_report_generated": "04 Apr 2020 01:00 (GMT)",
"periodic_report_time_range": "Previous calendar month", "periodic_report_tier": "All Web
Appliances",
"periodic_report_title": "Application Visibility",
"periodic_report_product_type": "wsa"}}]}}
```


Retrieving the Details of a Archive Report Entry

The following example shows how to retrieve an archived report entry with device type and an archived report ID:

Sample Request

```
GET /wsa/api/v2.0/config/archived_reports/view/20200409070946_Web%20
Sites_calendar_week.pdf?device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: 986e7426-c8a2-4bbb-9aa5-5b87e9a5ff56
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
```

```
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 10 Apr 2020 10:45:27 GMT
Content-type: application/pdf
Content-Disposition: filename="20200409070946_Web Sites_calendar_week.pdf"
Content-Length: 111175
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

%PDF-1.4
.......
.......
%%EOF
```

Adding an Archive Report Entry

The following example shows how to add an archived report with report title, report type, device type and other options:

Sample Request

```
POST /wsa/api/v2.0/config/archived_reports?device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: a144b273-13ff-4f48-bf4c-4232fa5db6f2
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
Content-Type: text/plain
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
content-length: 644
Connection: keep-alive

{"data":{"archived_reports":[{"periodic_report_delivery":"Archived Only",
"periodic_report_options":{"periodic_report_format":"pdf","periodic_report_lang":"en-us",
"periodic_report_rows":20,"periodic_report_sort_columns":[{"table":"Users","column":
"Transactions Blocked"}],"periodic_report_charts":[{"Chart":"Top Users (Left)","Data to
display":
"Transactions Blocked"},{"Chart":"Top Users (Right)","Data to display":"Bandwidth Used"}],
"periodic_report_time_range":"Previous calendar month"},"periodic_report_title":"Users
Archive Report 2",
"periodic_report_type":"coeus","periodic_report_type_name":"Users",
"periodic_report_user_name":"admin"}]}}
```

Sample Response

```
HTTP/1.1 201 Created
Date: Fri, 10 Apr 2020 10:51:41 GMT
Content-type: application/json
Content-Length: 46
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken
```

```
{"data": {"message": "Archived successfully"}}
```

Deleting an Archived Report Entry

The following example shows how to delete an archived report with device type and an archived report ID:

Sample Request

```
DELETE /wsa/api/v2.0/config/archived_reports?id=20200409071005_URL%20
Categories_calendar_week.pdf&device_type=wsa& HTTP/1.1
cache-control: no-cache
Postman-Token: f183a45c-7bcb-40fd-bff1-2940824684b3
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: PostmanRuntime/7.6.0
Accept: */*
Host: pod1224-wsa04.ibwsa.sgg.cisco.com:6080
accept-encoding: gzip, deflate
content-length: 0
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 10 Apr 2020 11:07:27 GMT
Content-type: application/json
Content-Length: 52
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, PUT, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{"data": {"message": "1 item deleted successfully"}}
```

Tracking APIs

You can use web tracking APIs to search for and get details about individual transactions or patterns of transactions. Web tracking APIs are:

- Proxy Services, on page 22
- Layer 4 Traffic Monitor, on page 25
- SOCKS Proxy, on page 27

Proxy Services

You can retrieve information about web usage for a particular user or for all users using multiple attributes.

Synopsis	`GET /api/v2.0/web-tracking/web_transaction?resource_attribute`
Supported Resource Attributes	See *AsyncOS 12.5 API - Addendum to the Getting Started Guide for Cisco Web Security Appliances* for more information.

Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Example

This example shows a query to retrieve transactions processed by the Proxy Services, with the duration, filtering, offset and limit, ordering, and transactions status parameters:

Sample Request

```
GET /wsa/api/v2.0/web-tracking/web_transaction?startDate=2016-09-30T18:00:00.000Z
&endDate=2018-10-31T19:00:00.000Z&filterBy=proxy_services&filterOperator=is&limit=20&offset=0
&device_type=wsa&orderBy=timestamp&orderDir=desc&transactionStatus=all&
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.225.99.234:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Mon, 19 Nov 2018 14:43:38 GMT
Content-type: application/json
Content-Length: 26617
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": 20
    },
    "data": [
        {
            "attributes": {
                "webCategory": "Computers and Internet",
                "contentType": "-",
                "pageResources":
"http://update.googleapis.com/service/update2?cup2key=8:128910954&cup2hreq=
                 3a51fa0a72aa94fcba12403f2eb11c4884b27862dd31a779133c03a0e61d334d",
                "applicationBehavior": "-",
                "malwareCategory": "-",
                "fileName": "-",
                "SHA": "-",
                "bandwidth": 0,
                "policyType": "Access",
                "user": "192.168.0.158",
                "srcIP": "192.168.0.158",
                "relatedTransCount": 1,
                "malwareName": "-",
                "applicationName": "-",
```

```
                "policyName": "DefaultGroup",
                "threatType": "Computers and Internet",
                "ampFileVerdict": "-",
                "destinationIP": "-",
                "userType": "[-]",
               "threatReason": "Information about computers and software, such as hardware,
 software, software
                support, information for software engineers, programming and networking,
website design, the web
                and Internet in general, computer science, computer graphics and clipart.
 Freeware and Shareware
                is a separate category.",
                "serialNo": "4229C3B46A609471867D-0720DA1A8A64",
                "wbrsScore": "No Score",
                "decisionSrc": "WEBCAT",
                "url":
"http://update.googleapis.com/service/update2?cup2key=8:128910954&cup2hreq=3a51fa0a72aa94f
                cba12403f2eb11c4884b27862dd31a779133c03a0e61d334d",
                "applicationType": "-",
                "timestamp": 1540275265,
                "transactionStatus": "BLOCK",
                "ampVerdict": "-"
            }
        },
        {
            "attributes": {
                "webCategory": "Business and Industry",
                "contentType": "-",
                "pageResources":
"ftp://www.purple.com/,http://www.purple.com/,http://www.purple.com/",
                "applicationBehavior": "-",
                "malwareCategory": "-",
                "fileName": "-",
                "SHA": "-",
                "bandwidth": 0,
                "policyType": "Access",
                "user": "10.10.5.105",
                "srcIP": "10.10.5.105",
                "relatedTransCount": 3,
                "malwareName": "-",
                "applicationName": "-",
                "policyName": "DefaultGroup",
                "threatType": "Business and Industry",
                "ampFileVerdict": "-",
                "destinationIP": "-",
                "userType": "[-]",
                "threatReason": "Marketing, commerce, corporations, business practices,
workforce, human resources
                , transportation, payroll, security and venture capital, office supplies,
 industrial equipment
                (process equipment), machines and mechanical systems, heating equipment,
cooling equipment,
                materials handling equipment, packaging equipment, manufacturing: solids
handling, metal fabrication
               , construction and building, passenger transportation, commerce, industrial
 design, construction
                , building materials, shipping and freight (freight services, trucking,
freight forwarders,
               truckload carriers, freight and transportation brokers, expedited services,
 load and freight matching
                , track and trace, rail shipping, ocean shipping, road feeder services,
moving and storage).",
                "serialNo": "4229C3B46A609471867D-0720DA1A8A64",
                "wbrsScore": "No Score",
```

```
                "decisionSrc": "WEBCAT",
                "url": "ftp://www.purple.com/",
                "applicationType": "-",
                "timestamp": 1540274946,
                "transactionStatus": "BLOCK",
                "ampVerdict": "-"
            }
        },
...

...
        {
            "attributes": {
                "webCategory": "Business and Industry",
                "contentType": "-",
                "pageResources":
"ftp://www.purple.com/,http://www.purple.com/,http://www.purple.com/",
                "applicationBehavior": "-",
                "malwareCategory": "-",
                "fileName": "-",
                "SHA": "-",
                "bandwidth": 0,
                "policyType": "Access",
                "user": "10.10.5.105",
                "srcIP": "10.10.5.105",
                "relatedTransCount": 3,
                "malwareName": "-",
                "applicationName": "-",
                "policyName": "DefaultGroup",
                "threatType": "Business and Industry",
                "ampFileVerdict": "-",
                "destinationIP": "-",
                "userType": "[-]",
                "threatReason": "Marketing, commerce, corporations, business practices,
workforce, human resources...
                "serialNo": "4229C3B46A609471867D-0720DA1A8A64",
                "wbrsScore": "No Score",
                "decisionSrc": "WEBCAT",
                "url": "ftp://www.purple.com/",
                "applicationType": "-",
                "timestamp": 1540263898,
                "transactionStatus": "BLOCK",
                "ampVerdict": "-"
            }
        }
    ]
}
```


Layer 4 Traffic Monitor

You can retrieve information about connections to malware sites and ports using multiple attributes.

Synopsis	`GET /api/v2.0/web-tracking/web_transaction?resource_attribute`	
Supported Resource Attributes	See *AsyncOS 12.5 API - Addendum to the Getting Started Guide for Cisco Web Security Appliances* for more information.	
Request Headers		Host, Accept, Authorization

Response Headers		Content-Type, Content-Length, Connection

Example

This example shows a query to retrieve transactions processed by the Layer 4 Traffic Monitor, with the duration, filtering, offset and limit, ordering, and transactions status parameters:

Sample Request

```
GET /wsa/api/v2.0/web-tracking/web_transaction?startDate=2016-09-30T18:00:00.000Z
&endDate=2018-10-31T19:00:00.000Z&filterBy=l4tm&filterOperator=is&limit=20&offset=0&device_type
=wsa&orderBy=timestamp&orderDir=desc&transactionStatus=all&
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.225.99.234:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Mon, 19 Nov 2018 14:58:11 GMT
Content-type: application/json
Content-Length: 12
Connection: close
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": 20
    },
    "data": [
        {
            "attributes": {
                "l4tmDestDomain": "ticketbooking.com",
                "l4tmUser": "10.10.99.68",
                "timestamp": 1534143578,
                "l4tmPort": 443,
                "serialNo": "42292E04F63C3DE54F13-E5D7466DA42E",
                "l4tmDestIpWithDomain": "103.117.180.6@ticketbooking.com",
                "transactionStatus": "BLOCKED"
            }
        },
        {
            "attributes": {
                "l4tmDestDomain": "ticketbooking.com",
                "l4tmUser": "10.10.99.68",
                "timestamp": 1534143578,
                "l4tmPort": 443,
                "serialNo": "42292E04F63C3DE54F13-E5D7466DA42E",
                "l4tmDestIpWithDomain": "103.117.180.6@ticketbooking.com",
                "transactionStatus": "BLOCKED"
            },
...
```

```
...
        {
            "attributes": {
                "l4tmDestDomain": "ticketbooking.com",
                "l4tmUser": "10.10.99.68",
                "timestamp": 1534143577,
                "l4tmPort": 443,
                "serialNo": "42292E04F63C3DE54F13-E5D7466DA42E",
                "l4tmDestIpWithDomain": "103.117.180.6@ticketbooking.com",
                "transactionStatus": "BLOCKED"
            }
        }
    ]
}
```

SOCKS Proxy

You can retrieve information about transactions processed through the SOCKS proxy, including information about top destinations and users.

Synopsis	`GET /api/v2.0/web-tracking/web_transaction?resource_attribute`	
Supported Resource Attributes	See *AsyncOS 12.5 API - Addendum to the Getting Started Guide for Cisco Web Security Appliances* for more information.	
Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Example

This example shows a query to retrieve transactions processed by the SOCKS Proxy Services, with the duration, filtering, offset and limit, ordering, and transactions status parameters:

Sample Request

```
GET /wsa/api/v2.0/web-tracking/web_transaction?startDate=2016-09-30T18:00:00.000Z&
endDate=2018-10-31T19:00:00.000Z&filterBy=socks_proxy&filterOperator=is&limit=20&offset=0&
device_type=wsa&orderBy=timestamp&orderDir=desc&socksTransportProtocol=all&transactionStatus=all&
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: 10.225.99.234:6080
accept-encoding: gzip, deflate
Connection: keep-alive
```

Sample Response

```
HTTP/1.1 200 OK
Server: API/2.0
Date: Mon, 19 Nov 2018 14:53:33 GMT
Content-type: application/json
Content-Length: 6629
Connection: close
Access-Control-Allow-Origin: *
```

```
Access-Control-Allow-Headers: content-type, jwttoken, mid, h, email
Access-Control-Allow-Credentials: true
Access-Control-Allow-Methods: GET, POST, DELETE, OPTIONS
Access-Control-Expose-Headers: Content-Disposition, jwtToken

{
    "meta": {
        "totalCount": 20
    },
    "data": [
        {
            "attributes": {
                "socksUser": "10.10.5.106",
                "socksBandwidth": 0,
                "socksUserType": "[-]",
                "timestamp": 1538044948,
                "socksTransportProtocol": "TCP",
                "socksPort": 80,
                "socksSrcIp": "10.10.5.106",
                "socksDestinationIp": "-",
                "socksPolicyName": "DefaultGroup",
                "socksHostName": "concede.fmtlib.net",
                "transactionStatus": "BLOCK"
            }
        },
        {
            "attributes": {
                "socksUser": "10.10.5.106",
                "socksBandwidth": 0,
                "socksUserType": "[-]",
                "timestamp": 1538044948,
                "socksTransportProtocol": "TCP",
                "socksPort": 80,
                "socksSrcIp": "10.10.5.106",
                "socksDestinationIp": "-",
                "socksPolicyName": "DefaultGroup",
                "socksHostName": "erupt.fernetmoretti.com.ar",
                "transactionStatus": "BLOCK"
            }
        },
...

...
        {
            "attributes": {
                "socksUser": "10.10.5.106",
                "socksBandwidth": 0,
                "socksUserType": "[-]",
                "timestamp": 1538044947,
                "socksTransportProtocol": "TCP",
                "socksPort": 80,
                "socksSrcIp": "10.10.5.106",
                "socksDestinationIp": "-",
                "socksPolicyName": "DefaultGroup",
                "socksHostName": "boots.fotopyra.pl",
                "transactionStatus": "BLOCK"
            }
        }
    ]
}
```