



APIs for Web

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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	<code>GET /api/v2.0/reporting/report?resource_attribute</code> <code>GET /api/v2.0/reporting/report/counter?resource_attribute</code>
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Supported Resource Attributes	Duration	<p>This is a required parameter. All API queries should be accompanied with this parameter.</p> <pre>startDate=YYYY-MM-DDThh:mm:00.000Z&endDate=YYYY-MM-DDThh:mm:00.000Z</pre> <p>Aggregate report(s) for the specified duration.</p>
	Query Type	<ul style="list-style-type: none"> • <code>query_type=graph</code> Receive data that can be represented as graphs. • <code>query_type=export</code> Receive data in the export format.
	Sorting	<p>You should use both these parameters. If you use either, you will not receive data in the response.</p> <ul style="list-style-type: none"> • <code>orderBy=<value></code> Specify the attribute by which to order the data in the response. For example, <pre>orderBy=total_clean_recipients</pre> • <code>orderDir=<value></code> Specify sort direction. The valid options are: <ul style="list-style-type: none"> • <code>asc</code> Order the results in ascending order. • <code>desc</code> Order the results in descending order.
	Lazy Loading	<p>You should use both these parameters. If you use either, you will not receive data in the response.</p> <ul style="list-style-type: none"> • <code>offset=<value></code> 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. • <code>limit=<value></code> Specify the number of records to retrieve.
	Data Retrieval Option	<ul style="list-style-type: none"> • <code>top=<value></code> Specify the number of records with the highest values to return.
Filtering		

		<p>Filter parameters restrict the data to be included the response.</p> <ul style="list-style-type: none"> • <code>filterValue=<value></code> The value to search for. • <code>filterBy=<value></code> Filter the data to be retrieved according to the filter property and value. • <code>filterOperator=<value></code> The valid options are: <ul style="list-style-type: none"> • <code>begins_with</code> Filter the response data based on the value specified. This is not an exact value. • <code>is</code> Filter the response data based on the exact value specified.
	Device	<ul style="list-style-type: none"> • <code>device_type=wsa</code> Specify the device type. This is a required parameter. All API queries must be accompanied with this parameter. • <code>device_name=<value></code> Specify the device name.
Request Headers		Host, Accept, Authorization
Response Headers		Content-Type, Content-Length, Connection

Examples

Examples for the types of reporting queries are shown below:

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- [Retrieving Multiple Values for Multiple Counters, with Multiple Values for Each Counter, on page 8](#)

Retrieving a Single Value for a Counter

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

Sample Request

```
GET /sma/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: sma.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 /sma/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 /sma/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 /sma/api/v2.0/reporting/mail_incoming_domain_detail?startDate=2017-09-10T19:00:00.000Z
&endDate=2018-09-24T23:00:00.000Z&device_type=esa&offset=1&limit=2
HTTP/1.1
cache-control: no-cache
Authorization: Basic YWRtaW46aXJvbnBvcnQ=
User-Agent: curl/7.54.0
Accept: */*
Host: sma.cisco.com:6080
accept-encoding: gzip, deflate
Connection: keep-alive

```

Sample Response

```

HTTP/1.1 200 OK
Server: API/2.0
Date: Sat, 17 Nov 2018 18:25:28 GMT
Content-type: application/json
Content-Length: 1934
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": "mail_incoming_domain_detail",
    "resultSet": {
      "conn_tls_total": [
        {"pphosted.com": 0},
        {"vm30bsd0004.ibqa": 5}
      ]
    }
  }
}

```

```
],
"conn_tls_opt_success": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 0}
],
"conn_tls_opt_fail": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 0}
],
"blocked_invalid_recipient": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 1}
],
"last_sender_group_name": [
  {"pphosted.com": "UNKNOWNLIST"},
  {"vm30bsd0004.ibqa": "UNKNOWNLIST"}
],
"detected_amp": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 2}
],
"social_mail": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 1}
],
"detected_spam": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 25}
],
"blocked_reputation": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 5}
],
"total_throttled_recipients": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 2}
],
"total_accepted_connections": [
  {"pphosted.com": 2},
  {"vm30bsd0004.ibqa": 119}
],...

...
"threat_content_filter": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 5}
],
"marketing_mail": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 5}
],
"blocked_dmarc": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 0}
],

"conn_tls_success": [
  {"pphosted.com": 0},
  {"vm30bsd0004.ibqa": 5}
],
"total_recipients": [
  {"pphosted.com": 2},
  {"vm30bsd0004.ibqa": 112}
```

```

    ],
    "conn_tls_fail": [
      {"pphosted.com": 0},
      {"vm30bsd0004.ibqa": 0}
    ],
    "total_threat_recipients": [
      {"pphosted.com": 0},
      {"vm30bsd0004.ibqa": 49}
    ]
  }
}
}
}

```

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 /sma/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,
```


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 /sma/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":
"http://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 API - Addendum to the Getting Started Guide for Cisco Content Security Management 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 /sma/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 API - Addendum to the Getting Started Guide for Cisco Content Security Management 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 /sma/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": {
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        "socksBandwidth": 0,
        "socksUserType": "[-]",
        "timestamp": 1538044948,
        "socksTransportProtocol": "TCP",
        "socksPort": 80,
        "socksSrcIp": "10.10.5.106",
        "socksDestinationIp": "-",
        "socksPolicyName": "DefaultGroup",
        "socksHostName": "concede.fmtlib.net",
        "transactionStatus": "BLOCK"
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        "socksPort": 80,
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    },
    ...
    ...
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        "socksUserType": "[-]",
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        "socksPort": 80,
        "socksSrcIp": "10.10.5.106",
        "socksDestinationIp": "-",
        "socksPolicyName": "DefaultGroup",
        "socksHostName": "boots.fotopyra.pl",
        "transactionStatus": "BLOCK"
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    }
  ]
}

```