Resource: bw_usage
Depicts the bandwidth usage

http://{device}/api/cmc.stats/1.0/bandwidth/usage

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>bw_usage</td>
<td>&lt;object&gt;</td>
<td>Depicts the bandwidth usage</td>
<td></td>
</tr>
</tbody>
</table>

Links

bw_usage: report
This is a report that returns a report of the per port bandwidth usage for a given list of devices. It returns the usage for all the devices if no devices are specified.

POST http://{device}/api/cmc.stats/1.0/bandwidth/usage

Request Body
Provide a bw_criteria data object.

Response Body
On success, the server returns a response body with the following structure:

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>bw_usage.links.report.response</td>
<td>&lt;object&gt;</td>
<td>This object holds the per port bandwidth utilization summary for a set of devices (or all if none specified).</td>
<td></td>
</tr>
<tr>
<td>bw_usage.links.report.response.query_criteria</td>
<td>&lt;bw_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying bandwidth data for time-series and per port bandwidth usage</td>
<td></td>
</tr>
<tr>
<td>bw_usage.links.report.response.response_data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>'The [wan_in, wan_out, lan_in, lan_out] 4-tuple summary for optimized. The [bytes_in, bytes_out] 2-tuple summary for pass through. The &quot;in&quot; and &quot;out&quot; signify the traffic direction (and not the SH interfaces). &quot;in&quot; refers to inbound traffic i.e. WAN to LAN. &quot;out&quot; refers to outbound traffic i.e. LAN to WAN lan_in and lan_out are the inbound traffic stats. lan_out and wan_out are the outbound traffic stats. In the case of pass through traffic, lan_in = wan_in and lan_out = wan_out. Hence, we have only 2 values representing stats in each direction. bytes_in is the inbound traffic. bytes_out is the outbound traffic. '</td>
<td>Optional;</td>
</tr>
<tr>
<td>bw_usage.links.report.response.response_data[items]</td>
<td>&lt;object&gt;</td>
<td>The port this data is being collected on</td>
<td>Range: 1 to 65535;</td>
</tr>
<tr>
<td>port</td>
<td>&lt;integer&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bw_usage.links.report.response.response_data[items].data</td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>The [wan_in, wan_out, lan_in, lan_out] 4-tuple summary for optimized. The [bytes_in, bytes_out] 2-tuple summary for pass through</td>
<td>Optional;</td>
</tr>
<tr>
<td>bw_usage.links.report.response.response_data[items].data[items]</td>
<td>&lt;number&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Resource: bw_timeseries

Depicts the bandwidth timeseries

```
http://{device}/api/cmc.stats/1.0/bandwidth/timeseries
```

### Links

**bw_timeseries: report**

This is a report that returns a time-series report for a given list of devices on a specific port. It returns for port 0 is no port has been specified.

```
POST http://{device}/api/cmc.stats/1.0/bandwidth/timeseries
```

**Request Body**

Provide a **bw_criteria** data object.

**Response Body**

On success, the server returns a response body with the following structure:
**Resource: throughput**

 Depicts the peak/p95 throughput timeseries

```
http://{device}/api/cmc.stats/1.0/throughput
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>throughput</td>
<td>&lt;object&gt;</td>
<td>Depicts the peak/p95 throughput timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**throughput: report**

This is a report that returns the peak/p95 time-series report for a given device on a specific port. It returns for port 0 is no port has been specified. It returns peak traffic type if not traffic type is specified.

```
POST http://{device}/api/cmc.stats/1.0/throughput
```

**Request Body**

Provide a `throughput_criteria` data object.

**Response Body**

On success, the server returns a response body with the following structure:

```
{
  "query_criteria": throughput_criteria,  
  "granularity": granularity,  
  "response_data": [   
    {   
      "timestamp": timestamp,  
      "data": [   
        number  
      ],   
      <prop>: any  
    },   
    <prop>: any 
  ]
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>throughput.links.report.response</td>
<td>&lt;object&gt;</td>
<td>This object holds the throughput traffic time-series data for traffic type peak or p95 on a given port(or 0 if not specified) for a specified device. If no traffic type is specified, it defaults to peak traffic.</td>
<td></td>
</tr>
<tr>
<td>throughput.links.report.response. query_criteria</td>
<td>&lt;throughput_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying for the throughput data.</td>
<td></td>
</tr>
<tr>
<td>throughput.links.report.response. granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>throughput.links.report.response. response_data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is a {timestamp, throughput_data} tuple containing the timestamp and throughput at that time</td>
<td>Optional;</td>
</tr>
<tr>
<td>throughput.links.report.response. response_data[items].timestamp</td>
<td>&lt;timestamp&gt;</td>
<td>The epoch timestamp of this data point</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
</tbody>
</table>
Resource: connection_history
Depicts the max/avg connection history timeseries

http://{device}/api/cmc.stats/1.0/connection_history

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>connection_history</td>
<td>&lt;object&gt;</td>
<td>Depicts the max/avg connection history timeseries</td>
<td></td>
</tr>
</tbody>
</table>

Links

connection_history: report
' This is a report that returns the avg/max connection history timeseries report for a given device. It returns avg traffic type if no traffic type is specified. '

POST http://{device}/api/cmc.stats/1.0/connection_history

Request Body
Provide a request body with the following structure:

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "traffic_type": string,
  "device": device_id,
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>request</td>
<td>&lt;object&gt;</td>
<td>' The start_time, end_time and device are mandatory fields in the request. A traffic_type can optionally be specified to be either max or avg. If not specified, it defaults to avg. '</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>request.start_time</td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td>request.end_time</td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td>request.traffic_type</td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for avg or max stats in the connection history</td>
<td>Optional; Default is max; Values: max, total;</td>
</tr>
<tr>
<td>request.device</td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: <code>^[a-zA-Z0-9]+$</code>;</td>
</tr>
<tr>
<td>request.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

Response Body
On success, the server returns a response body with the following structure:

```json

<table>
<thead>
<tr>
<th>throughput.links.report.response.response_data[items].data</th>
<th>&lt;array of &lt;number&gt;&gt;</th>
<th>Optional;</th>
</tr>
</thead>
<tbody>
<tr>
<td>throughput.links.report.response.response_data[items].data</td>
<td>&lt;number&gt;</td>
<td></td>
</tr>
<tr>
<td>throughput.links.report.response.response_data[items].prop</td>
<td>&lt;any&gt;</td>
<td>Optional;</td>
</tr>
<tr>
<td>throughput.links.report.response.prop</td>
<td>&lt;any&gt;</td>
<td>Optional;</td>
</tr>
</tbody>
</table>
```
```json
{
    "query_criteria": connection_history_criteria,
    "granularity": granularity,
    "response_data": [
        {
            "timestamp": timestamp,
            "data": {
                "number"...
            },
            "<prop>: any
        }
    ]
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>connection_history.links.report.response</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the connection history</td>
<td></td>
</tr>
<tr>
<td>connection_history.links.report.response.query_criteria</td>
<td>&lt;connection_history_criteria&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>connection_history.links.report.response.granularity</td>
<td>&lt;granularity&gt;</td>
<td>Each element in this array is a {timestamp, conn_history_data} tuple containing the timestamp and the connection history at that time</td>
<td>Optional;</td>
</tr>
<tr>
<td>connection_history.links.report.response.data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>The epoch timestamp of this datapoint</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>connection_history.links.report.response.data.items.timestamp</td>
<td>&lt;timestamp&gt;</td>
<td>The epoch timestamp of this datapoint</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>connection_history.links.report.response.data.items.data</td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>The [optimized_connections, passthrough_connections, active_connections, forwarded_connections, half_open_connections, half_closed_connections, flowing_connections] 7-tuple, exactly in that order, for each datapoint for avg/max connection history.</td>
<td>Optional;</td>
</tr>
<tr>
<td>connection_history.links.report.response.data.items.&lt;prop&gt;</td>
<td>&lt;number&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>connection_history.links.report.response.data.items.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Resource: connection_pooling**

Depicts the connection pooling timeseries

```
http://{device}/api/cmc.stats/1.0/connection_pooling
```

**JSON**

```
{
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>connection_pooling</td>
<td>&lt;object&gt;</td>
<td>Depicts the connection pooling timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**connection_pooling: report**

This is a report that returns the connection pooling time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/connection_pooling
```

**Request Body**

Provide a [multiple_devices_criteria] data object.

**Response Body**
Returns a `multiple_devices_response_data` data object.

### Resource: connection_forwarding
Depicts the connection forwarding timeseries

```
http://{device}/api/cmc.stats/1.0/connection_forwarding
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>connection_forwarding</td>
<td><code>object</code></td>
<td>Depicts the connection forwarding timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**connection_forwarding: report**
This is a report that returns the connection forwarding time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/connection_forwarding
```

**Request Body**
Provide a `multiple_devices_criteria` data object.

**Response Body**
Returns a `multiple_devices_response_data` data object.

### Resource: http
Depicts the http timeseries

```
http://{device}/api/cmc.stats/1.0/http
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>http</td>
<td><code>object</code></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**http: report**
This is a report that returns the http time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/http
```

**Request Body**
Provide a `multiple_devices_criteria` data object.

**Response Body**
Returns a `multiple_devices_response_data` data object.

### Resource: nfs
Depicts the nfs timeseries
http://(device)/api/cmc.stats/1.0/nfs

**Links**

**nfs: report**
This is a report that returns the NFS time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

**POST** http://(device)/api/cmc.stats/1.0/nfs

Request Body
Provide a [multiple_devices_criteria](#) data object.

Response Body
Returns a [multiple_devices_response_data](#) data object.

**Resource: ssl**
Depicts the ssl timeseries

http://(device)/api/cmc.stats/1.0/ssl

**Links**

**ssl: report**
This is a report that returns the ssl time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

**POST** http://(device)/api/cmc.stats/1.0/ssl

Request Body
Provide a [multiple_devices_criteria](#) data object.

Response Body
Returns a [multiple_devices_response_data](#) data object.

**Resource: disk_load**
Depicts the disk load timeseries

http://(device)/api/cmc.stats/1.0/disk_load

**Links**

**Notes**
<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>disk_load</td>
<td>&lt;object&gt;</td>
<td>Depicts the disk load timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**disk_load: report**

This is a report that returns the disk load time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/disk_load
```

**Request Body**

Provide a `multiple_devices_criteria` data object.

**Response Body**

Returns a `multiple_devices_response_data` data object.

**Resource: sdr_adaptive**

Depicts the SDR Adaptive timeseries

```
http://{device}/api/cmc.stats/1.0/sdr_adaptive
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>sdr_adaptive</td>
<td>&lt;object&gt;</td>
<td>Depicts the SDR Adaptive timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**sdr_adaptive: report**

This is a report that returns the sdr adaptive time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/sdr_adaptive
```

**Request Body**

Provide a `single_device_criteria` data object.

**Response Body**

Returns a `single_device_response_data` data object.

**Resource: memory_paging**

Depicts the memory paging timeseries

```
http://{device}/api/cmc.stats/1.0/memory_paging
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>memory_paging</td>
<td>&lt;object&gt;</td>
<td>Depicts the memory paging timeseries</td>
<td></td>
</tr>
</tbody>
</table>
Links

**memory_paging: report**
This is a report that returns the memory paging time-series report for a given device.

```
POST http://{device}/api/cmc.stats/1.0/memory_paging
```

Request Body

Provide a [single_device_criteria](#) data object.

Response Body

Returns a [single_device_response_data](#) data object.

**Resource: cpu_utilization**
Depicts the cpu utilization timeseries

```
http://{device}/api/cmc.stats/1.0/cpu_utilization
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>cpu_utilization</td>
<td>&lt;object&gt;</td>
<td>Depicts the cpu utilization timeseries</td>
<td></td>
</tr>
</tbody>
</table>

Links

**cpu_utilization: report**
This is a report that returns the cpu utilization time-series report for a given device.

```
POST http://{device}/api/cmc.stats/1.0/cpu_utilization
```

Request Body

Provide a [single_device_criteria](#) data object.

Response Body

Returns a [single_device_response_data](#) data object.

**Resource: pfs**
Depicts the pfs timeseries

```
http://{device}/api/cmc.stats/1.0/pfs
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>pfs</td>
<td>&lt;object&gt;</td>
<td>Depicts the pfs timeseries</td>
<td></td>
</tr>
</tbody>
</table>

Links

**pfs: report**
This is a report that returns the pfs time-series report for a given device.
POST http://{device}/api/cmc.stats/1.0/pfs

Request Body
Provide a single_device_criteria data object.

Response Body
Returns a single_device_response_data data object.

**Resource: srdf**

Depicts the regular/peak srdf timeseries

http://{device}/api/cmc.stats/1.0/srdf

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>srdf</td>
<td>&lt;object&gt;</td>
<td>Depicts the regular/peak srdf timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**srdf: report**

This is a report that returns the regular/peak srdf time-series report for a given device. It returns regular srdf data if the traffic type if not specified as 'peak'.

POST http://{device}/api/cmc.stats/1.0/srdf

Request Body
Provide a reg_and_peak_traffic_criteria data object.

Response Body
Returns a reg_and_peak_response_data data object.

**Resource: snapmirror**

Depicts the regular/peak snapmirror timeseries

http://{device}/api/cmc.stats/1.0/snapmirror

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>snapmirror</td>
<td>&lt;object&gt;</td>
<td>Depicts the regular/peak snapmirror timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**snapmirror: report**

This is a report that returns the regular/peak Snapmirror time-series report for a given device. It returns regular Snapmirror data if the traffic type if not specified as "peak".

POST http://{device}/api/cmc.stats/1.0/snapmirror

Request Body
Provide a snapmirror_traffic_type_criteria data object.
Response Body

On success, the server returns a response body with the following structure:

```json
{
  "query_criteria": snapmirror_traffic_type_criteria,
  "granularity": granularity,
  "response_data": {
    "timestamp": timestamp,
    "data": {
      number
    },
    <prop>: any
  },
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>snapmirror.links.report.response</td>
<td>&lt;object&gt;</td>
<td>'This object holds the regular/peak Snapmirror data for a specified device. If no traffic type is specified, it defaults to regular traffic. If no filer_id is specified, it defaults to filer_id 0.'</td>
<td></td>
</tr>
<tr>
<td>snapmirror.links.report.response.query_criteria</td>
<td>&lt;snapmirror_traffic_type_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying for the regular/peak timeseries data for a single device</td>
<td></td>
</tr>
<tr>
<td>snapmirror.links.report.response.granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>snapmirror.links.report.response.data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is a {timestamp, snapmirror_data} tuple containing the timestamp and regular/peak snapmirror data at that time</td>
<td>Optional;</td>
</tr>
<tr>
<td>snapmirror.links.report.response.response_data.response_data</td>
<td>&lt;object&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>snapmirror.links.report.response.response_data[items].timestamp</td>
<td>&lt;timestamp&gt;</td>
<td>The epoch timestamp of this datapoint</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>snapmirror.links.report.response.response_data[items].data</td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>'The [lan_bytes, wan_bytes] 2-tuple for each datapoint for regular srdf data.'</td>
<td>Optional;</td>
</tr>
<tr>
<td>snapmirror.links.report.response.response_data[items].data[items]</td>
<td>&lt;number&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>snapmirror.links.report.response.response_data[items].prop</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>snapmirror.links.report.response.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

Resource: tcp_memory_pressure

Depicts the regular/peak tcp memory pressure timeseries

```
http://{device}/api/cmc.stats/1.0/tcp_memory_pressure
```

```json
{

}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>tcp_memory_pressure</td>
<td>&lt;object&gt;</td>
<td>Depicts the regular/peak tcp memory pressure timeseries</td>
<td></td>
</tr>
</tbody>
</table>

Links

tcp_memory_pressure: report

This is a report that returns the regular/peak TCP memory pressure time-series report for a given device. It returns regular tcp memory pressure data if the traffic type if not specified as 'peak'.

```
POST http://{device}/api/cmc.stats/1.0/tcp_memory_pressure
```
### Request Body

Provide a `req_and_peak_traffic_criteria` data object.

### Response Body

Returns a `req_and_peak_response_data` data object.

---

### Resource: qos

Depicts the outbound/inbound qos timeseries

**URL:**

```plaintext
http://{device}/api/cmc.stats/1.0/qos
```

**JSON:**

```json
{}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>qos</td>
<td><code>&lt;object&gt;</code></td>
<td>Depicts the outbound/inbound qos timeseries</td>
<td></td>
</tr>
</tbody>
</table>

#### Links

**qos: report**

This is a report that returns the outbound/inbound QoS time-series report for a given device. It returns outbound qos data if the traffic type if not specified.

**URL:**

```plaintext
POST http://{device}/api/cmc.stats/1.0/qos
```

**Request Body**

Provide a `qos_criteria` data object.

**Response Body**

On success, the server returns a response body with the following structure:

**JSON**

```json
{}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>qos.links.report.response</td>
<td><code>&lt;object&gt;</code></td>
<td>A list of fields to be defined in the request body when querying for the QoS data</td>
<td></td>
</tr>
<tr>
<td>qos.links.report.response.query_criteria</td>
<td><code>&lt;qos_criteria&gt;</code></td>
<td>A list of fields to be defined in the request body when querying for the QoS data</td>
<td></td>
</tr>
<tr>
<td>qos.links.report.response.granularity</td>
<td><code>&lt;granularity&gt;</code></td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>qos.links.report.response.response_data</td>
<td><code>&lt;array of &lt;object&gt;&gt;</code></td>
<td>Each element in this array is a <code>{timestamp, qos_data}</code> tuple containing the timestamp and the QoS data at that time</td>
<td>Optional;</td>
</tr>
<tr>
<td>qos.links.report.response.response_data[items]</td>
<td><code>&lt;object&gt;</code></td>
<td></td>
<td></td>
</tr>
<tr>
<td>qos.links.report.response.response_data[items].timestamp</td>
<td><code>&lt;timestamp&gt;</code></td>
<td>The epoch timestamp of this datapoint</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
</tbody>
</table>
Resource: granite_lun_io

Depicts the granite lun io timeseries

http://{device}/api/cmc.stats/1.0/granite/lun_io

JSON

```json
{
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_lun_io</td>
<td>&lt;object&gt;</td>
<td>Depicts the granite lun io timeseries</td>
<td></td>
</tr>
</tbody>
</table>

Links

**granite_lun_io: report**

This is a report that returns the granite lun io timeseries report for a given device.

POST http://{device}/api/cmc.stats/1.0/granite/lun_io

Request Body

Provide a lun_io_criteria data object.

Response Body

On success, the server returns a response body with the following structure:

```json
{
  "query_criteria": lun_io_criteria,
  "granularity": granularity,
  "response_data": [
    {
      "timestamp": timestamp,
      "data": [number]
    },
    <prop>: any
  ],
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_lun_io.links.report_response</td>
<td>&lt;object&gt;</td>
<td>'This object holds the io/iops/io_time LUN IO data for a specified device. If no traffic type is specified, it defaults to i/o operations performed (IO) LUN IO data. If no lun_subclass_id is specified, it defaults to lun_subclass_id 0.'</td>
<td></td>
</tr>
<tr>
<td>granite_lun_io.links.report_response.query_criteria</td>
<td>&lt;lun_io_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying the SteelFusion LUN IO data</td>
<td></td>
</tr>
<tr>
<td>granite_lun_io.links.report_response.granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>granite_lun_io.links.report_response.response_data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is a {timestamp, lun_io_data} tuple containing the timestamp and LUN IO data at that time</td>
<td>Optional;</td>
</tr>
<tr>
<td>granite_lun_io.links.report_response.response_data[items]</td>
<td>&lt;object&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
granite_initiator_io

Depicts the SteelFusion initiator io time-series

```
http://{device}/api/cmc.stats/1.0/granite/initiator_io
```

### JSON

```
{
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_initiator_io</td>
<td>&lt;object&gt;</td>
<td>Depicts the SteelFusion initiator io time-series</td>
<td></td>
</tr>
</tbody>
</table>

### Links

**granite_initiator_io: report**

This is a report that returns the SteelFusion initiator io time-series report for a given device.

```
POST http://{device}/api/cmc.stats/1.0/granite/initiator_io
```

**Request Body**

Provide an `initiator_io_criteria` data object.

**Response Body**

On success, the server returns a response body with the following structure:

```
{
  "query_criteria": initiator_io_criteria,
  "granularity": granularity,
  "response_data": [
    {
      "timestamp": timestamp,
      "data": [
        number
      ],
      <prop>: any
    },
    <prop>: any
  ]
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_initiator_io.links.report.response</td>
<td>&lt;object&gt;</td>
<td>This object holds the io/iops/io_time initiator IO data for a specified device. If no traffic type is specified, it defaults to IO operations performed (io) initiator IO data. If no initiator_subclass_id is specified, it defaults to initiator_subclass_id 0.</td>
<td></td>
</tr>
<tr>
<td>granite_initiator_io.links.report.response.query_criteria</td>
<td>&lt;initiator_io_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data</td>
<td></td>
</tr>
<tr>
<td>granite_initiator_io.links.report.response.granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>granite_initiator_io.links.response.response_data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is a (timestamp, initiator_io_data) tuple containing the timestamp and initiator io data at that time</td>
<td>Optional;</td>
</tr>
</tbody>
</table>
Resource: granite_network_io

Depicts the SteelFusion network IO timeseries

GET http://{device}/api/cmc.stats/1.0/granite/network_io

links

granite_network_io: report

This is a report that returns the SteelFusion network IO timeseries report for a given device.

POST http://{device}/api/cmc.stats/1.0/granite/network_io

Request Body

Provide a network_io_criteria data object.

Response Body

On success, the server returns a response body with the following structure:

```
{
  "query_criteria": network_io_criteria,
  "granularity": granularity,
  "response": {
    "response_data": {
      "timestamp": timestamp,
      "data": {
        number: {
          <prop>: any
        },
        <prop>: any
      }
    }
  }
}
```

Links

granite_network_io: links.report.response

A list of fields to be defined in the request body when querying for the SteelFusion network IO data.

Values: 300, 3600;
Resource: granite_blockstore
Depicts the SteelFusion blockstore timeseries

```
http://{device}/api/cmc.stats/1.0/granite/blockstore
```

### JSON

```
{
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_blockstore</td>
<td>&lt;object&gt;</td>
<td>Depicts the SteelFusion blockstore timeseries</td>
<td></td>
</tr>
</tbody>
</table>

### Links

**granite_blockstore**: report

This is a report that returns the SteelFusion blockstore timeseries report for a given device.

```
POST http://{device}/api/cmc.stats/1.0/granite/blockstore
```

**Request Body**

Provide a `blockstore_criteria` data object.

**Response Body**

On success, the server returns a response body with the following structure:

```
{
  "query_criteria": blockstore_criteria,
  "granularity": granularity,
  "response_data": {
    "timestamp": timestamp,
    "data": [
      number
    ],
    <prop>: any
  }
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_blockstore:links:report:response</td>
<td>&lt;object&gt;</td>
<td>This object holds the hit_miss/uncmtd_first_classid/uncmtd_last_classid/commit_throughput/commit_delay blockstore data for a specified device. If no traffic type is specified, it defaults to the commit_throughput blockstore data. If no lun_subclass_id is specified, it defaults to lunsubclassid 0.</td>
<td></td>
</tr>
</tbody>
</table>
**Resource: dns_usage**

Depicts the dns usage timeseries

```
http://{device}/api/cmc.stats/1.0/dns/usage
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dns_usage</td>
<td>&lt;object&gt;</td>
<td>Depicts the dns usage timeseries</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**dns_usage: report**

This is a report that returns the DNS usage time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/dns/usage
```

**Request Body**

Provide a [multiple_devices_criteria](#) data object.

**Response Body**

Returns a [multiple_devices_response_data](#) data object.

**Resource: dns_cache_hits**

Depicts the dns cache hits time-series

```
http://{device}/api/cmc.stats/1.0/dns/cache_hits
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Links**

**dns_cache_hits: report**
This is a report that returns the DNS cache hits time-series report for a given list of devices. It returns the aggregate for all the devices if none are specified.

```
POST http://{device}/api/cmc.stats/1.0/dns/cache_hits
```

**Request Body**
Provide a `multiple_devices_criteria` data object.

**Response Body**
Returns a `multiple_devices_response_data` data object.

**Resource: bw_per_appliance**
Depicts the bandwidth per appliance data

```
http://{device}/api/cmc.stats/1.0/bandwidth/per_appliance
```

```
{
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>bw_per_appliance</code></td>
<td><code>object</code></td>
<td>Depicts the bandwidth per appliance data</td>
<td></td>
</tr>
</tbody>
</table>

**Links**

**bw_per_appliance: report**
This is a report that returns the per appliance bandwidth report for a given list of devices.

```
POST http://{device}/api/cmc.stats/1.0/bandwidth/per_appliance
```

**Request Body**
Provide a `per_appl_bw_criteria` data object.

**Response Body**
On success, the server returns a response body with the following structure:

```
{
  "query_criteria": "per_appl_bw_criteria",
  "response_data": {
    "device": "device_id",
    "data": {
      "number"
    },
    "<prop>": any
  },
  "<prop>": any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>bw_per_appliance.links.report.response</code></td>
<td><code>object</code></td>
<td>This object is used to hold the response data of the per appliance bandwidth query.</td>
<td></td>
</tr>
<tr>
<td>Property Name</td>
<td>Type</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>throughput_per_appliance</td>
<td>&lt;object&gt;</td>
<td>Depicts the throughput per appliance data</td>
<td></td>
</tr>
</tbody>
</table>

### Links

**throughput_per_appliance: report**

This is a report that returns the throughput per appliance report for a given list of devices.

**POST** `http://{device}/api/cmc.stats/1.0/throughput/per_appliance`

**Request Body**

Provide a `per_appl_thrput_criteria` data object.

**Response Body**

On success, the server returns a response body with the following structure:

```json
{
    "query_criteria": per_appl_thrput_criteria,
    "response_data": [
        {
            "device": device_id,
            "data": {
                number
            }
        },
        { <prop>: any }
    ]
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>throughput_per_appliance.links.report.response</td>
<td>&lt;object&gt;</td>
<td>This object is used to hold the response data of the per appliance throughput query.</td>
<td></td>
</tr>
</tbody>
</table>
Resource: logging

Service logging parameters

http://{device}/api/cmc.stats/1.0/logging

```json
{
  "level": logging_level,
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>logging</td>
<td>&lt;object&gt;</td>
<td>Service logging parameters</td>
<td>Required properties: [level];</td>
</tr>
<tr>
<td>logging.level</td>
<td>&lt;logging_level&gt;</td>
<td>Severity levels for logs emitted by the service</td>
<td>Values: crit, err, warning, notice, info, debug;</td>
</tr>
<tr>
<td>logging:&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

Links

logging: get

GET http://{device}/api/cmc.stats/1.0/logging

Response Body
Returns a logging data object.

logging: set

PUT http://{device}/api/cmc.stats/1.0/logging

Request Body
Provide a logging data object.

Response Body
Returns a logging data object.

Type: port

Port number
### Type: `integer`

Port number

#### Notes
- Range: 1 to 65535;

### Type: `string`

Case sensitive Device ID. Only alphanumeric permitted.

#### Notes
- Pattern: `^[a-zA-Z0-9]+$`;

### Type: `integer`

Specifies the granularity between successive time-series data

#### Notes
- Values: 300, 3600;

### Type: `object`

A list of fields to be defined in the request body when querying bandwidth data for time-series and per port bandwidth usage

#### Notes
- Required properties: `[start_time, end_time]`;

### Type: `any`

Case sensitive Device ID. Only alphanumeric permitted.

#### Notes
- Pattern: `^[a-zA-Z0-9]+$`;

### Type: `object`

A list of fields to be defined in the request body when querying bandwidth data for time-series and per port bandwidth usage

#### Notes
- Required properties: `[start_time, end_time]`;

### JSON

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

### JSON

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```

```json

{  
  "start_time": timestamp,  
  "end_time": timestamp,  
  "traffic_type": string,  
  "port": port,  
  "devices": [ device_id ],  
  ...
}

```
A list of fields to be defined in the request body when querying the per appliance bw data

**JSON**

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "traffic_type": string,
  "devices": [ device_id ],
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>per_appl_bw_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying the per appliance bw data</td>
<td>Required properties: [start_time, end_time, devices];</td>
</tr>
<tr>
<td></td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for optimized traffic or the pass through</td>
<td>Optional; Default is optimized; Values: optimized, passthrough;</td>
</tr>
<tr>
<td></td>
<td>&lt;array of &lt;device_id&gt;&gt;</td>
<td>An array of devices being queried on. When multiple devices are queried on, the data points are returned for each of the devices.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: &quot;^[a-zA-Z0-9]+$&quot;;</td>
</tr>
</tbody>
</table>

**Type: throughput_criteria**

A list of fields to be defined in the request body when querying for the throughput data.

**JSON**

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "traffic_type": string,
  "port": port,
  "device": device_id,
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>throughput_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the throughput data.</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td></td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for peak traffic or the p95</td>
<td>Optional; Default is peak; Values: peak, p95;</td>
</tr>
<tr>
<td></td>
<td>&lt;port&gt;</td>
<td>Port number</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: &quot;^[a-zA-Z0-9]+$&quot;;</td>
</tr>
</tbody>
</table>

**Type: per_appl_thrput_criteria**

A list of fields to be defined in the request body when querying for the per appliance throughput data.

**JSON**

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "traffic_type": string,
  "devices": [ device_id ],
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>per_appl_thrput_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the per appliance throughput data.</td>
<td>Required properties: [start_time, end_time, devices];</td>
</tr>
<tr>
<td></td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
</tbody>
</table>
### Type: connection_history_criteria

A list of fields to be defined in the request body when querying for the connection history

```

```

### Type: multiple_devices_criteria

A generic list of fields to be defined in the request body when querying for multiple devices, no traffic type specified, time-series data

```

```

### Type: multiple_devices_response_data

This object is used to hold the response data of the multiple_devices_criteria queries with the generic characteristics of: 1. multiple devices being queried upon 2. do not specify a "traffic_type" 3. do not specify a "subclass" Currently, this is being used to hold the response data of: 1. HTTP time-series data for a specified set of devices 2. NFS time-series data for a specified set of devices 3. SSL time-series data for a specified set of devices 4. connection_pooling time-series data for a specified set of devices 5. connection_forwarding time-series data for a specified set of devices 6. disk_load time-series data for a specified set of devices 7. DNS usage time-series data
for a specified set of devices. DNS cache hits time-series data for a specified set of devices.

**JSON**

```json
{
    "query_criteria": multiple_devices_criteria, 
    "granularity": granularity, 
    "response_data": [
        
        {
            "timestamp": timestamp, 
            "data": [number
                ],
                <prop>: any
            },
            <prop>: any
        }]
    }
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>multiple_devices_response_data</td>
<td>&lt;object&gt;</td>
<td>This object is used to hold the response data of the multiple_devices_criteria queries with the generic characteristics of: 1. multiple devices being queried upon 2. do not specify a &quot;traffic_type&quot; 3. do not specify a &quot;subclass&quot; Currently, this is being used to hold the response data of: 1. HTTP time-series data for a specified set of devices. 2. NFS time-series data for a specified set of devices. 3. SSL time-series data for a specified set of devices. 4. connection_pooling time-series data for a specified set of devices. 5. connection_forwarding time-series data for a specified set of devices. 6. disk_load time-series data for a specified set of devices. 7. DNS usage time-series data for a specified set of devices. 8. DNS cache hits time-series data for a specified set of devices.</td>
<td></td>
</tr>
<tr>
<td>query_criteria</td>
<td>&lt;multiple_devices_criteria&gt;</td>
<td>A generic list of fields to be defined in the request body when querying for multiple devices, no traffic type specified, time-series data.</td>
<td></td>
</tr>
<tr>
<td>granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data.</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td>response_data</td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is one of the following: 1. (timestamp, http_data) tuple containing the timestamp and HTTP data at that time. 2. (timestamp, nfs_data) tuple containing the timestamp and NFS data at that time. 3. (timestamp, ssl_data) tuple containing the timestamp and SSL data at that time. 4. (timestamp, connection_pooling_data) tuple containing the timestamp and connection pooling data at that time. 5. (timestamp, connection_forwarding_data) tuple containing the timestamp and connection forwarding data at that time. 6. (timestamp, disk_load_data) tuple containing the timestamp and disk load data at that time. 7. (timestamp, dns_usage_data) tuple containing the timestamp and dns usage data at that time. 8. (timestamp, dns_cache_hits_data) tuple containing the timestamp and dns cache hits data at that time.</td>
<td></td>
</tr>
<tr>
<td>response_data[items]</td>
<td>&lt;object&gt;</td>
<td>The epoch timestamp of this data point.</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>response_data[items].timestamp</td>
<td>&lt;timestamp&gt;</td>
<td>The epoch timestamp of this data point.</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>response_data[items].data</td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>The [parse-and-prefetch_hits, misses, metadata_cache_hits, url-learning_hits] 4-tuple, exactly in that order, for each datapoint for HTTP. OR The [local_responses, delayed_responses, remote_responses, total_calls] 4-tuple, exactly in that order, for each datapoint for NFS. OR The [total_session_requests, established_sessions, blacklist_table_overflows] 3-tuple, exactly in that order, for each datapoint for SSL. OR The [total_connection_requests, reused_connections] 2-tuple, exactly in that order, for each datapoint for connection pool. OR The [packets_sent, bytes_sent] 2-tuple, exactly in that order, for each datapoint for connection forwarding. OR The [load] 1-tuple, for each datapoint for disk load. OR The [num_of_entries_in_cache, bytes_of_used_memory_in_cache] 2-tuple, exactly in that order, for each datapoint for DNS usage. OR The [success, referral, nxrset, nxdomain, recursion, failure, miss] 7-tuple, in exactly the given order, for each datapoint for DNS cache hits.</td>
<td>Optional;</td>
</tr>
</tbody>
</table>
**Type: single_device_criteria**

A generic list of fields to be defined in the request body when querying for a single device, no traffic type specified, timeseries data

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "device": device_id
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>single_device_criteria</td>
<td>&lt;object&gt;</td>
<td>A generic list of fields to be defined in the request body when querying for</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>a single device, no traffic type specified, timeseries data</td>
<td></td>
</tr>
<tr>
<td>single_device_criteria.</td>
<td>&lt;timestamp&gt;</td>
<td>Required properties: [start_time, end_time, device];</td>
<td></td>
</tr>
<tr>
<td>start_time</td>
<td></td>
<td>Secounds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td>single_device_criteria.</td>
<td>&lt;timestamp&gt;</td>
<td>Required properties: [start_time, end_time, device];</td>
<td></td>
</tr>
<tr>
<td>end_time</td>
<td></td>
<td>Secounds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td>single_device_criteria.</td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td></td>
</tr>
<tr>
<td>device</td>
<td></td>
<td>Pattern: '^[a-zA-Z0-9]+$';</td>
<td></td>
</tr>
<tr>
<td>single_device_criteria.</td>
<td>&lt;any&gt;</td>
<td>Optional;</td>
<td></td>
</tr>
</tbody>
</table>

**Type: single_device_response_data**

This object is used to hold the response data of the single_device_criteria queries with the generic characteristics of: 1. single device being queried upon 2. do not specify a "traffic_type" 3. do not specify a "subclass" Currently, this is being used to hold the response data of: 1. cpu_utilization timeseries data for a specified device 2. memory_paging timeseries data for a specified device 3. pfs timeseries data for a specified device 4. sdr_adaptive timeseries data for a specified device

```json
{
  "query_criteria": single_device_criteria,
  "granularity": granularity,
  "response_data": {
    "timestamp": timestamp,
    "data": [number],
    <prop>: any
  }
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>single_device_response_data</td>
<td>&lt;object&gt;</td>
<td>A generic list of fields to be defined in the request body when querying for</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>a single device, no traffic type specified, timeseries data</td>
<td></td>
</tr>
<tr>
<td>single_device_response_data.</td>
<td>&lt;single_device_criteria&gt;</td>
<td>A generic list of fields to be defined in the request body when querying for a single device, no traffic type specified, timeseries data</td>
<td></td>
</tr>
<tr>
<td>granularity</td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive timeseries data</td>
<td></td>
</tr>
</tbody>
</table>

Values: 300, 3600;
Type: `reg_and_peak_traffic_type`
Determines whether the query is for regular/peak traffic.

**JSON**

```
string
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>reg_and_peak_traffic_type</code></td>
<td><code>&lt;string&gt;</code></td>
<td>Determines whether the query is for regular/peak traffic.</td>
<td>Default is regular; Values: regular, peak;</td>
</tr>
</tbody>
</table>

Type: `reg_and_peak_traffic_criteria`
A list of fields to be defined in the request body when querying for the regular/peak time-series data for a single device

**JSON**

```
{
  "start_time": timestamp,
  "end_time": timestamp,
  "traffic_type": reg_and_peak_traffic_type,
  "device": device_id,
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>reg_and_peak_traffic_criteria</code></td>
<td><code>&lt;object&gt;</code></td>
<td>A list of fields to be defined in the request body when querying for the regular/peak time-series data for a single device</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td><code>reg_and_peak_traffic_criteria.start_time</code></td>
<td><code>&lt;timestamp&gt;</code></td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>reg_and_peak_traffic_criteria.end_time</code></td>
<td><code>&lt;timestamp&gt;</code></td>
<td></td>
<td></td>
</tr>
<tr>
<td><code>reg_and_peak_traffic_criteria.traffic_type</code></td>
<td><code>&lt;reg_and_peak_traffic_type&gt;</code></td>
<td>Determines whether the query is for regular/peak traffic.</td>
<td>Default is regular; Values: regular, peak;</td>
</tr>
<tr>
<td><code>reg_and_peak_traffic_criteria.device</code></td>
<td><code>&lt;device_id&gt;</code></td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: '^([a-zA-Z0-9]+)$';</td>
</tr>
<tr>
<td><code>reg_and_peak_traffic_criteria.&lt;prop&gt;</code></td>
<td><code>&lt;any&gt;</code></td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

Type: `reg_and_peak_response_data`

This object is used to hold the response data of the `reg_and_peak_traffic_criteria` queries with the generic
**characteristics of:** 1. single device being queried upon 2. specify a "regular" (default) or peak "traffic_type" 3. do not specify a "subclass" currently, this is being used to hold the response data of: 1. regular/peak srdf timeseries data for a specified device 2. regular/peak tcp_memory_pressure timeseries data for a specified device

```
<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>reg_and_peak_response_data</strong></td>
<td>&lt;object&gt;</td>
<td>This object is used to hold the response data of the reg_and_peak_traffic_criteria queries with the generic characteristics of: 1. single device being queried upon 2. specify a &quot;regular&quot; (default) or peak &quot;traffic_type&quot; 3. do not specify a &quot;subclass&quot; currently, this is being used to hold the response data of: 1. regular/peak srdf timeseries data for a specified device 2. regular/peak tcp_memory_pressure timeseries data for a specified device</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.query_criteria</strong></td>
<td>&lt;reg_and_peak_traffic_criteria&gt;</td>
<td>A list of fields to be defined in the request body when querying for the regular/peak time-series data for a single device</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.granularity</strong></td>
<td>&lt;granularity&gt;</td>
<td>Specifies the granularity between successive time-series data</td>
<td>Values: 300, 3600;</td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.response_data</strong></td>
<td>&lt;array of &lt;object&gt;&gt;</td>
<td>Each element in this array is one of the following: 1. (timestamp, srdf_data) tuple containing the timestamp and regular/peak SRDF data at that time 2. (timestamp, tcp_memory_pressure_data) tuple containing the timestamp and regular/peak tcp memory pressure data at that time</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.response_data.timestamp</strong></td>
<td>&lt;timestamp&gt;</td>
<td>The epoch timestamp of this datapoint</td>
<td>Optional; Seconds since January 1, 1970;</td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.response_data.data</strong></td>
<td>&lt;array of &lt;number&gt;&gt;</td>
<td>The [lan_bytes, wan_bytes] 2-tuple, exactly in that order, for each datapoint for regular SRDF data. OR The [num_of_pages_used, PCT_time_spent_under_pressure] 2-tuple, exactly in that order, for each datapoint for regular TCP memory pressure data. OR The [enable_threshold, cutoff_threshold, max_threshold] 3-tuple, exactly in that order, for each datapoint for peak TCP memory pressure data.</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.response_data[items].data</strong></td>
<td>&lt;number&gt;</td>
<td>Optional;</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.response_data[items].&lt;prop&gt;</strong></td>
<td>&lt;any&gt;</td>
<td>Optional;</td>
<td></td>
</tr>
<tr>
<td><strong>reg_and_peak_response_data.&lt;prop&gt;</strong></td>
<td>&lt;any&gt;</td>
<td>Optional;</td>
<td></td>
</tr>
</tbody>
</table>

**Type: qos_criteria**

A list of fields to be defined in the request body when querying for the QoS data

```
```
<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>qos_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the QoS data</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>qos_criteria.start_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>qos_criteria.end_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>qos_criteria.qos_class_id</td>
<td>&lt;integer&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>qos_criteria.traffic_type</td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for outbound/inbound QoS traffic</td>
<td>Optional; Default is outbound; Values: outbound, inbound;</td>
</tr>
<tr>
<td>qos_criteria.device</td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: &quot;^[a-zA-Z0-9]+$&quot;;</td>
</tr>
<tr>
<td>qos_criteria.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

**Type: snapmirror_traffic_type_criteria**

A list of fields to be defined in the request body when querying for the regular/peak timeseries data for a single device

```json
{
  "start_time": timestamp,
  "end_time": timestamp,
  "filer_id": integer,
  "traffic_type": reg_and_peak_traffic_type,
  "device": device_id,
  <prop>: any
}
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>snapmirror_traffic_type_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the regular/peak timeseries data for a single device</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.start_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.end_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.filer_id</td>
<td>&lt;integer&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.traffic_type</td>
<td>&lt;reg_and_peak_traffic_type&gt;</td>
<td>Determines whether the query is for regular/peak traffic.</td>
<td>Default is regular; Values: regular, peak;</td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.device</td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: &quot;^[a-zA-Z0-9]+$&quot;;</td>
</tr>
<tr>
<td>snapmirror_traffic_type_criteria.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

**Type: granite_io_traffic_type**

Determines whether the query is for io/iops/io_time lun/initiator io traffic

```json
string
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>granite_io_traffic_type</td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for io/iops/io_time lun/initiator io traffic</td>
<td>Default is io; Values: io, iops, io_time;</td>
</tr>
</tbody>
</table>

**Type: lun_io_criteria**

A list of fields to be defined in the request body when querying for the SteelFusion LUN IO data

```json
```
```json
{
    "start_time": timestamp,
    "end_time": timestamp,
    "traffic_type": granite_io_traffic_type,
    "lun_subclass_id": integer,
    "device": device_id,
    <prop>: any
}
```

**Property Name** | **Type** | **Description** | **Notes**
--- | --- | --- | ---
`lun_io_criteria` | `<object>` | A list of fields to be defined in the request body when querying for the SteelFusion LUN IO data | Required properties: [start_time, end_time, device];
`lun_io_criteria.start_time` | `<timestamp>` | Seconds since January 1, 1970; | |
`lun_io_criteria.end_time` | `<timestamp>` | Seconds since January 1, 1970; | |
`lun_io_criteria.traffic_type` | `<granite_io_traffic_type>` | Determines whether the query is for io/iops/io_time lun/initiator io traffic | Default is io; Values: io, iops, io_time;
`lun_io_criteria.lun_subclass_id` | `<integer>` | Optional; | |
`lun_io_criteria.device` | `<device_id>` | Case sensitive Device ID. Only alphanumeric permitted. Pattern: '^[a-zA-Z0-9]+$'; | |
`lun_io_criteria.<prop>` | `<any>` | Optional; | |

**Type:** `lun_io_response_data`

This object holds the io/iops/io_time lun/initiator io data for a specified device. If no traffic type is specified, it defaults to io operations performed (io) lun/initiator io data. If no lun_subclass_id is specified, it defaults to lun_subclass_id 0.

```json
{
    "query_criteria": lun_io_criteria,
    "granularity": granularity,
    "response_data": [ |
    { |
    "timestamp": timestamp,
    "data": [ |
    number |
    ], |
    <prop>: any |
    }, |
    <prop>: any |
}
```

**Property Name** | **Type** | **Description** | **Notes**
--- | --- | --- | ---
`lun_io_response_data` | `<object>` | 'This object holds the io/iops/io_time lun/initiator io data for a specified device. If no traffic type is specified, it defaults to io operations performed (io) lun/initiator io data. If no lun_subclass_id is specified, it defaults to lun_subclass_id 0.' | |
`lun_io_response_data.query_criteria` | `<lun_io_criteria>` | A list of fields to be defined in the request body when querying for the SteelFusion LUN IO data | |
`lun_io_response_data.granularity` | `<granularity>` | Specifies the granularity between successive time-series data | Values: 300, 3600;
`lun_io_response_data.response_data` | `<array of <object>>` | Each element in this array is a {timestamp, lun/initiator_io_data} tuple containing the timestamp and lun/initiator IO data at that time | Optional;
`lun_io_response_data.response_data[items].timestamp` | `<timestamp>` | The epoch timestamp of this datapoint | Optional; Seconds since January 1, 1970;
`lun_io_response_data.response_data[items].<prop>` | `<number>` | | |
`lun_io_response_data.<prop>` | `<any>` | | |

**Type:** `initiator_io_criteria`

A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data
### Property: initiator_io_criteria

A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>initiator_io_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>initiator_io_criteria.start_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td>Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>initiator_io_criteria.end_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td>Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>initiator_io_criteria.traffic_type</td>
<td>&lt;granite_io_traffic_type&gt;</td>
<td>Determines whether the query is for io/iops/io_time lun/initiator io traffic</td>
<td>Default is io; Values: io, iops, io_time;</td>
</tr>
<tr>
<td>initiator_io_criteria.device</td>
<td>&lt;device_id&gt;</td>
<td></td>
<td>Case sensitive Device ID. Only alphanumeric permitted. Pattern: ^^[a-zA-Z0-9-]+$$;</td>
</tr>
<tr>
<td>initiator_io_criteria.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

### Property: network_io_criteria

A list of fields to be defined in the request body when querying for the SteelFusion network IO data

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>network_io_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the SteelFusion network IO data</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>network_io_criteria.start_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td>Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>network_io_criteria.end_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td>Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>network_io_criteria.traffic_type</td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for throughput/prefetch network IO traffic</td>
<td>Optional; Default is throughput; Values: throughput, prefetch;</td>
</tr>
<tr>
<td>network_io_criteria.device</td>
<td>&lt;device_id&gt;</td>
<td></td>
<td>Case sensitive Device ID. Only alphanumeric permitted. Pattern: ^^[a-zA-Z0-9-]+$$;</td>
</tr>
<tr>
<td>network_io_criteria.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

### Property: blockstore_criteria

A list of fields to be defined in the request body when querying for the SteelFusion blockstore data

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>blockstore_criteria</td>
<td>&lt;object&gt;</td>
<td>A list of fields to be defined in the request body when querying for the SteelFusion blockstore data</td>
<td>Required properties: [start_time, end_time, device];</td>
</tr>
<tr>
<td>blockstore_criteria.start_time</td>
<td>&lt;timestamp&gt;</td>
<td></td>
<td>Seconds since January 1, 1970;</td>
</tr>
<tr>
<td>Property Name</td>
<td>Type</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
<td>-------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>blockstore_criteria.end_time</td>
<td>&lt;timestamp&gt;</td>
<td>Seconds since January 1, 1970;</td>
<td></td>
</tr>
<tr>
<td>blockstore_criteria.traffic_type</td>
<td>&lt;string&gt;</td>
<td>Determines whether the query is for hit_miss/uncmtd_first_classid/uncmtd_last_classid/commit_throughput/commit_delay blockstore traffic</td>
<td>Optional; Default is commit_throughput; Values: hit_miss, uncmtd_first_classid, uncmtd_last_classid, commit_throughput, commit_delay;</td>
</tr>
<tr>
<td>blockstore_criteria.lun_subclass_id</td>
<td>&lt;integer&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
<tr>
<td>blockstore_criteria.device</td>
<td>&lt;device_id&gt;</td>
<td>Case sensitive Device ID. Only alphanumeric permitted.</td>
<td>Pattern: '^^[a-zA-Z0-9]+$'</td>
</tr>
<tr>
<td>blockstore_criteria.&lt;prop&gt;</td>
<td>&lt;any&gt;</td>
<td></td>
<td>Optional;</td>
</tr>
</tbody>
</table>

**Type: logging_level**

Severity levels for logs emitted by the service

```json
    string
```

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>logging_level</td>
<td>&lt;string&gt;</td>
<td>Severity levels for logs emitted by the service</td>
<td>Values: crit, err, warning, notice, info, debug;</td>
</tr>
</tbody>
</table>