

REST API for SCC Stats Service v1.0

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Resource: bw_usage

Depicts the bandwidth usage

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>bw_usage</code>	<code><object></code>	Depicts the bandwidth usage	

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:

JSON

```
{
  "query_criteria": bw\_criteria,
  "response_data": [
    {
      "port": integer,
      "data": [
        number
      ],
      <prop>: any
    }
  ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
<code>bw_usage.links.report.response</code>	<code><object></code>	This object holds the per port bandwidth utilization summary for a set of devices(or all if none specified).	
<code>bw_usage.links.report.response.query_criteria</code>	<code><bw_criteria></code>	A list of fields to be defined in the request body when querying bandwidth data for time-series and per port bandwidth usage	
<code>bw_usage.links.report.response.response_data</code>	<code><array of object></code>	' 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 "in" and "out" signify the traffic direction (and not the SH interfaces). "in" refers to inbound traffic i.e. WAN to LAN. "out" refers to outbound traffic i.e. LAN to WAN lan_in and wan_in 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. '	Optional;
<code>bw_usage.links.report.response.response_data[items]</code>	<code><object></code>		
<code>port</code>	<code><<i>integer</i>></code>	The port this data is being collected on	Range: 1 to 65535;
<code>bw_usage.links.report.response.response_data[items].data</code>	<code><array of number></code>	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	Optional;
<code>bw_usage.links.report.response.response_data[items].data[items]</code>	<code><<i>number</i>></code>		

<code>bw_usage.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>bw_usage.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: bw_timeseries

Depicts the bandwidth timeseries

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>bw_timeseries</code>	<code><object></code>	Depicts the 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 if 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:

JSON

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

Property Name	Type	Description	Notes
<code>bw_timeseries.links.report.response</code>	<code><object></code>	This object holds the per data point bandwidth utilization on a given port(or 0 if not specified) for a specific set of devices(or all if none specified).	
<code>bw_timeseries.links.report.response.granularity</code>	<code><granularity></code>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<code>bw_timeseries.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in this array is a {timestamp, bw_timeseries_data} tuple containing the timestamp and total bandwidth utilization at that time	Optional;
<code>bw_timeseries.links.report.response.response_data[items]</code>	<code><object></code>		
<code>bw_timeseries.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<code>bw_timeseries.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	' The [wan_in, wan_out, lan_in, lan_out] 4-tuple for each datapoint for optimized. The [bytes_in, bytes_out] 2-tuple for passthrough These fields are explained in detail above, in the bw_usage_response_data section. '	Optional;
<code>bw_timeseries.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>bw_timeseries.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;

<code>bw_timeseries.links.report.response.<prop></code>	<code><any></code>	Optional;
---	--------------------------	-----------

Resource: throughput

Depicts the peak/p95 throughput timeseries

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>throughput</code>	<code><object></code>	Depicts the peak/p95 throughput timeseries	

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:

JSON

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

Property Name	Type	Description	Notes
<code>throughput.links.report.response</code>	<code><object></code>	' 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. '	
<code>throughput.links.report.response.query_criteria</code>	<code><throughput_criteria></code>	A list of fields to be defined in the request body when querying for the through-put data.	
<code>throughput.links.report.response.granularity</code>	<code><granularity></code>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<code>throughput.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in this array is a {timestamp, throughput_data} tuple containing the timestamp and throughput at that time	Optional;
<code>throughput.links.report.response.response_data[items]</code>	<code><object></code>		
<code>throughput.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this data point	Optional; Seconds since January 1, 1970;

<code>throughput.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	' The [wan_in, wan_out, lan_in, lan_out] 4-tuple for each data point for optimized. These fields are explained in detail above, in the bw_usage_response_data section. Please note that we do not maintain the peak throughput for passthrough data, and thus, would never have 2-tuples for this data. '	Optional;
<code>throughput.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>throughput.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>throughput.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: connection_history

Depicts the max/avg connection history timeseries

`http://{device}/api/cmcs.stats/1.0/connection_history`

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>connection_history</code>	<code><object></code>	Depicts the max/avg connection history timeseries	

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/cmcs.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
}
```

Property Name	Type	Description	Notes
<code>request</code>	<code><object></code>	' 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. '	Required properties: [start_time, end_time, device];
<code>request.start_time</code>	<code><timestamp></code>		Seconds since January 1, 1970;
<code>request.end_time</code>	<code><timestamp></code>		Seconds since January 1, 1970;
<code>request.traffic_type</code>	<code><string></code>	Determines whether the query is for avg or max stats in the connection history	Optional; Default is max; Values: max, total;
<code>request.device</code>	<code><device_id></code>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^ [a-zA-Z0-9]+ \$';
<code>request.<prop></code>	<code><any></code>		Optional;

Response Body

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

JSON

```

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

```

Property Name	Type	Description	Notes
<i>connection_history.links.report.response</i>	<object>		
<i>connection_history.links.report.response.query_criteria</i>	< <i>connection_history_criteria</i> >	A list of fields to be defined in the request body when querying for the connection history	
<i>connection_history.links.report.response.granularity</i>	< <i>granularity</i> >	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>connection_history.links.report.response.response_data</i>	<array of <object>>	Each element in this array is a {timestamp, conn_history_data} tuple containing the timestamp and the connection history at that time	Optional;
<i>connection_history.links.report.response.response_data[items]</i>	<object>		
<i>connection_history.links.report.response.response_data[items].timestamp</i>	<timestamp>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<i>connection_history.links.report.response.response_data[items].data</i>	<array of <number>>	' 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. '	Optional;
<i>connection_history.links.report.response.response_data[items].data[items]</i>	<number>		
<i>connection_history.links.report.response.response_data[items].<prop></i>	<any>		Optional;
<i>connection_history.links.report.response.<prop></i>	<any>		Optional;

Resource: connection_pooling

Depicts the connection pooling timeseries

http://{device}/api/cmcc.stats/1.0/connection_pooling

JSON

```

{
}

```

Property Name	Type	Description	Notes
<i>connection_pooling</i>	<object>	Depicts the connection pooling timeseries	

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/cmcc.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/cmcs.stats/1.0/connection_forwarding`

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<code>connection_forwarding</code>	<code><object></code>	Depicts the connection forwarding timeseries	

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/cmcs.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/cmcs.stats/1.0/http`

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<code>http</code>	<code><object></code>	Depicts the http timeseries	

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/cmcs.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/cmcs.stats/1.0/nfs

JSON

```
{
}
```

Property Name	Type	Description	Notes
nfs	<object>	Depicts the nfs timeseries	

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/cmcs.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/cmcs.stats/1.0/ssl

JSON

```
{
}
```

Property Name	Type	Description	Notes
ssl	<object>	Depicts the ssl timeseries	

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/cmcs.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/cmcs.stats/1.0/disk_load

JSON

```
{
}
```


Property Name	Type	Description	Notes
<i>disk_load</i>	<object>	Depicts the disk load timeseries	

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<i>sdr_adaptive</i>	<object>	Depicts the SDR Adaptive timeseries	

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<i>memory_paging</i>	<object>	Depicts the memory paging timeseries	

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
```

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<i>cpu_utilization</i>	<object>	Depicts the cpu utilization timeseries	

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
```

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<i>pfs</i>	<object>	Depicts the pfs timeseries	

Links

pfs: report

This is a report that returns the pfs time-series report for a given device.

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

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<i>srdf</i>	<object>	Depicts the regular/peak srdf timeseries	

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/cmcs.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/cmcs.stats/1.0/snapmirror

JSON

```
{  
}
```

Property Name	Type	Description	Notes
<i>snapmirror</i>	<object>	Depicts the regular/peak snapmirror timeseries	

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/cmcs.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
}
```

Property Name	Type	Description	Notes
<i>snapmirror.links.report.response</i>	<object>	' 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. '	
<i>snapmirror.links.report.response.query_criteria</i>	< <i>snapmirror_traffic_type_criteria</i> >	A list of fields to be defined in the request body when querying for the regular/peak timeseries data for a single device	
<i>snapmirror.links.report.response.granularity</i>	< <i>granularity</i> >	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>snapmirror.links.report.response.response_data</i>	<array of <object>>	Each element in this array is a {timestamp, snapmirror_data} tuple containing the timestamp and regular/peak snapmirror data at that time	Optional;
<i>snapmirror.links.report.response.response_data[items]</i>	<object>		
<i>snapmirror.links.report.response.response_data[items].timestamp</i>	<timestamp>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<i>snapmirror.links.report.response.response_data[items].data</i>	<array of <number>>	' The [lan_bytes, wan_bytes] 2-tuple for each datapoint for regular srdf data. '	Optional;
<i>snapmirror.links.report.response.response_data[items].data[items]</i>	<number>		
<i>snapmirror.links.report.response.response_data[items].<prop></i>	<any>		Optional;
<i>snapmirror.links.report.response.<prop></i>	<any>		Optional;

Resource: tcp_memory_pressure

Depicts the regular/peak tcp memory pressure timeseries

http://{device}/api/cmcc.stats/1.0/tcp_memory_pressure

JSON

```
{
}
```

Property Name	Type	Description	Notes
<i>tcp_memory_pressure</i>	<object>	Depicts the regular/peak tcp memory pressure timeseries	

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 is not specified as 'peak'.

POST http://{device}/api/cmcc.stats/1.0/tcp_memory_pressure

Request Body

Provide a [reg_and_peak_traffic_criteria](#) data object.

Response Body

Returns a [reg_and_peak_response_data](#) data object.

Resource: qos

Depicts the outbound/inbound qos timeseries

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<i>qos</i>	<i><object></i>	Depicts the outbound/inbound qos timeseries	

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.

POST `http://{device}/api/cmcc.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

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

Property Name	Type	Description	Notes
<i>qos.links.report.response</i>	<i><object></i>	' This object holds the outbound/inbound QoS data for a specified device. If no traffic type is specified, it defaults to outbound QoS data. If no qos_class_id is specified, it defaults to qos_class_id 3. '	
<i>qos.links.report.response.query_criteria</i>	<i><qos_criteria></i>	A list of fields to be defined in the request body when querying for the QoS data	
<i>qos.links.report.response.granularity</i>	<i><granularity></i>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>qos.links.report.response.response_data</i>	<i><array of object></i>	Each element in this array is a {timestamp, qos_data} tuple containing the timestamp and the QoS data at that time	Optional;
<i>qos.links.report.response.response_data [items]</i>	<i><object></i>		
<i>qos.links.report.response.response_data [items].timestamp</i>	<i><timestamp></i>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;

<code>qos.links.report.response.response_data [items].data</code>	<code><array of <number>></code>	' The [packets_sent, packets_dropped, bits_sent, bits_dropped] 4-tuple for each datapoint for outbound/inbound qos data. '	Optional;
<code>qos.links.report.response.response_data [items].data[items]</code>	<code><number></code>		
<code>qos.links.report.response.response_data [items].<prop></code>	<code><any></code>		Optional;
<code>qos.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: granite_lun_io

Depicts the granite lun io timeseries

`http://{device}/api/cmccstats/1.0/granite/lun_io`

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>granite_lun_io</code>	<code><object></code>	Depicts the granite lun io timeseries	

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/cmccstats/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
}
```

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

<code>granite_lun_io.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this data point	Optional; Seconds since January 1, 1970;
<code>granite_lun_io.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	'The [num_of_reads, num_of_writes] 2-tuple for each data point for io/iops/io_time lun io data.'	Optional;
<code>granite_lun_io.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>granite_lun_io.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>granite_lun_io.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: granite_initiator_io

Depicts the SteelFusion initiator io time-series

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>granite_initiator_io</code>	<code><object></code>	Depicts the SteelFusion initiator io time-series	

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:

JSON

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

Property Name	Type	Description	Notes
<code>granite_initiator_io.links.report.response</code>	<code><object></code>	'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.'	
<code>granite_initiator_io.links.report.response.query_criteria</code>	<code><initiator_io_criteria></code>	A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data	
<code>granite_initiator_io.links.report.response.granularity</code>	<code><granularity></code>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<code>granite_initiator_io.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in this array is a {timestamp, initiator_io_data} tuple containing the timestamp and initiator io data at that time	Optional;

<code>granite_initiator_io.links.report.response.response_data[items]</code>	<code><object></code>		
<code>granite_initiator_io.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this data point	Optional; Seconds since January 1, 1970;
<code>granite_initiator_io.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	' The [num_of_reads, num_of_writes] 2-tuple for each data point for io/iops/io_time initiator IO data. '	Optional;
<code>granite_initiator_io.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>granite_initiator_io.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>granite_initiator_io.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: granite_network_io

Depicts the SteelFusion network IO timeseries

`http://{device}/api/cmcc.stats/1.0/granite/network_io`

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>granite_network_io</code>	<code><object></code>	Depicts the SteelFusion network IO timeseries	

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/cmcc.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:

JSON

```
{
  "query_criteria": network\_io\_criteria,
  "granularity": granularity,
  "response_data": [
    {
      "timestamp": timestamp,
      "data": [
        number
      ],
      "<prop>": any
    }
  ],
  "<prop>": any
}
```

Property Name	Type	Description	Notes
<code>granite_network_io.links.report.response</code>	<code><object></code>	' This object holds the throughput/prefetch network io data for a specified device. If no traffic type is specified, it defaults to the throughput network io data. '	
<code>granite_network_io.links.report.response.query_criteria</code>	<code><network_io_criteria></code>	A list of fields to be defined in the request body when querying for the SteelFusion network IO data	
<code>granite_network_io.links.report.response.granularity</code>	<code><granularity></code>	Specifies the granularity between successive time-series data	Values: 300, 3600;

<code>granite_network_io.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in this array is a {timestamp, network_io_data} tuple containing the timestamp and network io data at that time	Optional;
<code>granite_network_io.links.report.response.response_data[items]</code>	<code><object></code>		
<code>granite_network_io.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this data point	Optional; Seconds since January 1, 1970;
<code>granite_network_io.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	' The [num_of_reads, num_of_writes] 2-tuple for each data point for network io throughput data. And the [num_of_bytes_read] 1-tuple for each data point for network io prefetch data. '	Optional;
<code>granite_network_io.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>granite_network_io.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>granite_network_io.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: granite_blockstore

Depicts the SteelFusion blockstore timeseries

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>granite_blockstore</code>	<code><object></code>	Depicts the SteelFusion blockstore timeseries	

Links

granite_blockstore: report

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

POST `http://{device}/api/cmcc.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:

JSON

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

Property Name	Type	Description	Notes
<code>granite_blockstore.links.report.response</code>	<code><object></code>	' 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 lun_subclass_id 0. '	

<code>granite_blockstore.links.report.response.query_criteria</code>	<code><blockstore_criteria></code>	A list of fields to be defined in the request body when querying for the SteelFusion blockstore data	
<code>granite_blockstore.links.report.response.granularity</code>	<code><granularity></code>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<code>granite_blockstore.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in this array is a {timestamp, blockstore_data} tuple containing the timestamp and blockstore data at that time	Optional;
<code>granite_blockstore.links.report.response.response_data[items]</code>	<code><object></code>		
<code>granite_blockstore.links.report.response.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<code>granite_blockstore.links.report.response.response_data[items].data</code>	<code><array of <number>></code>	' The [num_of_hits, num_of_misses] 2-tuple for each datapoint for blockstore read hit_miss data. And the [num_of_writes, num_of_commits] 2-tuple for each data point for blockstore uncmted_first_classid data. And the [num_of_writes, num_of_commits] 2-tuple for each data point for blockstore uncmted_last_classid data. And the [num_of_writes, num_of_commits] 2-tuple for each data point for blockstore commit throughput data. And the [sec_of_delay] 1-tuple for each data point for blockstore commit delay data. '	Optional;
<code>granite_blockstore.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>granite_blockstore.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>granite_blockstore.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: dns_usage

Depicts the dns usage timeseries

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>dns_usage</code>	<code><object></code>	Depicts the dns usage timeseries	

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`

JSON

```
{
}
```

Property Name	Type	Description	Notes
---------------	------	-------------	-------

<code>dns_cache_hits</code>	<code><object></code>	Depicts the dns cache hits time-series	
-----------------------------	-----------------------------	--	--

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/cmcc.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/cmcc.stats/1.0/bandwidth/per_appliance`

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>bw_per_appliance</code>	<code><object></code>	Depicts the bandwidth per appliance data	

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/cmcc.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:

JSON

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

Property Name	Type	Description	Notes
<code>bw_per_appliance.links.report.response</code>	<code><object></code>	This object is used to hold the response data of the per appliance bandwidth query.	

<code>bw_per_appliance.links.report.response.query_criteria</code>	<code><per_appl_bw_criteria></code>	A list of fields to be defined in the request body when querying the per appliance bw data	
<code>bw_per_appliance.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in the array is the following: {device, data_array} tuple containing the device and bw data for that device. The sum of the opt/passthru data comprises each of the data arrays: [sum_wan_in, sum_wan_out, sum_lan_in, sum_lan_out] 4-tuple for optimized. [sum_bytes_in, sum_bytes_out] 2-tuple for passthrough	Optional;
<code>bw_per_appliance.links.report.response.response_data[items]</code>	<code><object></code>		
<code>bw_per_appliance.links.report.response.response_data[items].device</code>	<code><device_id></code>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<code>bw_per_appliance.links.report.response.response_data[items].data</code>	<code><array of <number>></code>		Optional;
<code>bw_per_appliance.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>bw_per_appliance.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>bw_per_appliance.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: throughput_per_appliance

Depicts the throughput per appliance data

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

JSON

```
{
}
```

Property Name	Type	Description	Notes
<code>throughput_per_appliance</code>	<code><object></code>	Depicts the throughput per appliance data	

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
    }
  ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
<code>throughput_per_appliance.links.report.response</code>	<code><object></code>	This object is used to hold the response data of the per appliance throughput query.	

<code>throughput_per_appliance.links.report.response.query_criteria</code>	<code><per_appl_thrput_criteria></code>	A list of fields to be defined in the request body when querying for the per appliance through-put data.	
<code>throughput_per_appliance.links.report.response.response_data</code>	<code><array of <object>></code>	Each element in the array is the following: {device, data_array} tuple containing the device and throughput data for that device The max of the peak/p95 data comprises each of the data arrays: [max_wan_in, max_wan_out, max_lan_in, max_lan_out] 4-tuple for optimized. The [max_bytes_in, max_bytes_out] 2-tuple for passthrough	Optional;
<code>throughput_per_appliance.links.report.response.response_data[items]</code>	<code><object></code>		
<code>throughput_per_appliance.links.report.response.response_data[items].device</code>	<code><device_id></code>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<code>throughput_per_appliance.links.report.response.response_data[items].data</code>	<code><array of <number>></code>		Optional;
<code>throughput_per_appliance.links.report.response.response_data[items].data[items]</code>	<code><number></code>		
<code>throughput_per_appliance.links.report.response.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>throughput_per_appliance.links.report.response.<prop></code>	<code><any></code>		Optional;

Resource: logging

Service logging parameters

`http://{device}/api/cmcc.stats/1.0/logging`

JSON

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

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

Links

logging: get

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

Response Body

Returns a `logging` data object.

logging: set

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

Request Body

Provide a `logging` data object.

Response Body

Returns a `logging` data object.

Type: port

Port number

JSON

```
integer
```

Property Name	Type	Description	Notes
<i>port</i>	<i><integer></i>	Port number	Range: 1 to 65535;

Type: device_id

Case sensitive Device ID. Only alphanumeric permitted.

JSON

```
string
```

Property Name	Type	Description	Notes
<i>device_id</i>	<i><string></i>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';

Type: granularity

Specifies the granularity between successive time-series data

JSON

```
integer
```

Property Name	Type	Description	Notes
<i>granularity</i>	<i><integer></i>	Specifies the granularity between successive time-series data	Values: 300, 3600;

Type: bw_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>bw_criteria</i>	<i><object></i>	A list of fields to be defined in the request body when querying bandwidth data for time-series and per port bandwidth usage	Required properties: [start_time, end_time];
<i>bw_criteria.start_time</i>	<i><timestamp></i>		Seconds since January 1, 1970;
<i>bw_criteria.end_time</i>	<i><timestamp></i>		Seconds since January 1, 1970;
<i>bw_criteria.traffic_type</i>	<i><string></i>	Determines whether the query is for optimized traffic or the pass through	Optional; Default is optimized; Values: optimized, passthrough;
<i>bw_criteria.port</i>	<i><port></i>	Port number	
<i>bw_criteria.devices</i>	<i><array of <device_id>></i>	' An array of devices being queried on. None implies all devices. If multiple devices are queried on, the data points are the sum across all the devices. This is optionally used in bandwidth usage and bw time-series queries. '	Optional;
<i>bw_criteria.devices[items]</i>	<i><device_id></i>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>bw_criteria.<prop></i>	<i><any></i>		Optional;

Type: per_appl_bw_criteria

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

JSON

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

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

Type: throughput_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>throughput_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the through-put data.	Required properties: [start_time, end_time, device];
<i>throughput_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>throughput_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>throughput_criteria.traffic_type</i>	<string>	Determines whether the query is for peak traffic or the p95	Optional; Default is peak; Values: peak, p95;
<i>throughput_criteria.port</i>	<port>	Port number	
<i>throughput_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>throughput_criteria.<prop></i>	<any>		Optional;

Type: per_appl_thrput_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>per_appl_thrput_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the per appliance through-put data.	Required properties: [start_time, end_time, devices];
<i>per_appl_thrput_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;

<i>per_app_thrput_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>per_app_thrput_criteria.traffic_type</i>	<string>	Determines whether the query is for peak traffic or the p95.	Optional; Default is peak; Values: peak, p95;
<i>per_app_thrput_criteria.devices</i>	<array of <device_id>>	An array of devices being queried on. When multiple devices are queried on, the data points are returned for each of the devices.	
<i>per_app_thrput_criteria.devices[items]</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>per_app_thrput_criteria.<prop></i>	<any>		Optional;

Type: connection_history_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>connection_history_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the connection history	Required properties: [start_time, end_time, device];
<i>connection_history_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>connection_history_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>connection_history_criteria.traffic_type</i>	<string>	Determines whether the query is for avg or max stats in the connection history	Optional; Default is max; Values: max, total;
<i>connection_history_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>connection_history_criteria.<prop></i>	<any>		Optional;

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

JSON

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

Property Name	Type	Description	Notes
<i>multiple_devices_criteria</i>	<object>	A generic list of fields to be defined in the request body when querying for multiple devices, no traffic type specified, time-series data	Required properties: [start_time, end_time];
<i>multiple_devices_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>multiple_devices_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>multiple_devices_criteria.devices</i>	<array of <device_id>>	' An array of devices being queried on. None implies all devices. If multiple devices are queried on, the data points are the sum across all the devices. '	Optional;
<i>multiple_devices_criteria.devices[items]</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>multiple_devices_criteria.<prop></i>	<any>		Optional;

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 8. DNS cache hits time-series data for a specified set of devices '

JSON

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

Property Name	Type	Description	Notes
<i>multiple_devices_response_data</i>	<object>	' This object is used to hold the response data of the <i>multiple_devices_criteria</i> 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 8. DNS cache hits time-series data for a specified set of devices '	
<i>multiple_devices_response_data.query_criteria</i>	< <i>multiple_devices_criteria</i> >	A generic list of fields to be defined in the request body when querying for multiple devices, no traffic type specified, time-series data	
<i>multiple_devices_response_data.granularity</i>	< <i>granularity</i> >	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>multiple_devices_response_data.response_data</i>	<array of <object>>	' 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 '	Optional;
<i>multiple_devices_response_data.response_data[items]</i>	<object>		
<i>multiple_devices_response_data.response_data[items].timestamp</i>	<timestamp>	The epoch timestamp of this data point	Optional; Seconds since January 1, 1970;
<i>multiple_devices_response_data.response_data[items].data</i>	<array of <number>>	' 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, nxrrset, nxdomain, recursion, failure, miss] 7-tuple, in exactly the given order, for each datapoint for DNS cache hits. '	Optional;

<code>multiple_devices_response_data.response_data[items].data[items]</code>	<code><number></code>		
<code>multiple_devices_response_data.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>multiple_devices_response_data.<prop></code>	<code><any></code>		Optional;

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
}
```

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

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
}
```

Property Name	Type	Description	Notes
<code>single_device_response_data</code>	<code><object></code>	' 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 '	
<code>single_device_response_data.query_criteria</code>	<code><single_device_criteria></code>	A generic list of fields to be defined in the request body when querying for a single device, no traffic type specified, timeseries data	
<code>single_device_response_data.granularity</code>	<code><granularity></code>	Specifies the granularity between successive timeseries data	Values: 300, 3600;

<code>single_device_response_data.response_data</code>	<code><array of <object>></code>	' Each element in this array is one of the following: 1. {timestamp, cpu_utilization_data} tuple containing the timestamp and CPU utilization data at that time 2. {timestamp, memory_paging_data} tuple containing the timestamp and memory paging data at that time 3. {timestamp, pfs_data} tuple containing the timestamp and PFS data at that time 4. {timestamp, sdr_adaptive} tuple containing the timestamp and sdr_adaptive data at that time '	Optional;
<code>single_device_response_data.response_data[items]</code>	<code><object></code>		
<code>single_device_response_data.response_data[items].timestamp</code>	<code><timestamp></code>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<code>single_device_response_data.response_data[items].data</code>	<code><array of <number>></code>	' The [cpu_utilization_percentage] 1-tuple, for each datapoint for CPU utilization. OR The [num_of_pages_swapped_out] 1-tuple, for each datapoint for memory paging. OR The [share_size, bytes_received, bytes_sent] 3-tuple, exactly in that order, for each datapoint for PFS data. OR The [disk_pressure_only_compression, in_path_rule_only_compression, disk_pressure_only_in_mem_sdr, in_path_rule_only_in_mem_sdr] 4-tuple, for each datapoint for sdr_adaptive. '	Optional;
<code>single_device_response_data.response_data[items].data[items]</code>	<code><number></code>		
<code>single_device_response_data.response_data[items].<prop></code>	<code><any></code>		Optional;
<code>single_device_response_data.<prop></code>	<code><any></code>		Optional;

Type: `reg_and_peak_traffic_type`

Determines whether the query is for regular/peak traffic.

JSON

```
string
```

Property Name	Type	Description	Notes
<code>reg_and_peak_traffic_type</code>	<code><string></code>	Determines whether the query is for regular/peak traffic.	Default is regular; Values: regular, peak;

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
}
```

Property Name	Type	Description	Notes
<code>reg_and_peak_traffic_criteria</code>	<code><object></code>	A list of fields to be defined in the request body when querying for the regular/peak time-series data for a single device	Required properties: [start_time, end_time, device];
<code>reg_and_peak_traffic_criteria.start_time</code>	<code><timestamp></code>		Seconds since January 1, 1970;
<code>reg_and_peak_traffic_criteria.end_time</code>	<code><timestamp></code>		Seconds since January 1, 1970;
<code>reg_and_peak_traffic_criteria.traffic_type</code>	<code><reg_and_peak_traffic_type></code>	Determines whether the query is for regular/peak traffic.	Default is regular; Values: regular, peak;
<code>reg_and_peak_traffic_criteria.device</code>	<code><device_id></code>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^ [a-zA-Z0-9]+ \$';
<code>reg_and_peak_traffic_criteria.<prop></code>	<code><any></code>		Optional;

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 '

JSON

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

Property Name	Type	Description	Notes
<i>reg_and_peak_response_data</i>	<object>	' 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 '	
<i>reg_and_peak_response_data.query_criteria</i>	< <u>reg_and_peak_traffic_criteria</u> >	A list of fields to be defined in the request body when querying for the regular/peak time-series data for a single device	
<i>reg_and_peak_response_data.granularity</i>	< <u>granularity</u> >	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>reg_and_peak_response_data.response_data</i>	<array of <object>>	' 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 '	Optional;
<i>reg_and_peak_response_data.response_data [items]</i>	<object>		
<i>reg_and_peak_response_data.response_data [items].timestamp</i>	<timestamp>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<i>reg_and_peak_response_data.response_data [items].data</i>	<array of <number>>	' The [lan_bytes, wan_bytes] 2-tuple, exactly in that order, for each datapoint for regular/peak 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. '	Optional;
<i>reg_and_peak_response_data.response_data [items].data [items]</i>	<number>		
<i>reg_and_peak_response_data.response_data [items].<prop></i>	<any>		Optional;
<i>reg_and_peak_response_data.<prop></i>	<any>		Optional;

Type: qos_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>qos_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the QoS data	Required properties: [start_time, end_time, device];
<i>qos_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>qos_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>qos_criteria.qos_class_id</i>	<integer>		Optional;
<i>qos_criteria.traffic_type</i>	<string>	Determines whether the query is for outbound/inbound QoS traffic	Optional; Default is outbound; Values: outbound, inbound;
<i>qos_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>qos_criteria.<prop></i>	<any>		Optional;

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
}
```

Property Name	Type	Description	Notes
<i>snapmirror_traffic_type_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the regular/peak timeseries data for a single device	Required properties: [start_time, end_time, device];
<i>snapmirror_traffic_type_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>snapmirror_traffic_type_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>snapmirror_traffic_type_criteria.filer_id</i>	<integer>		Optional;
<i>snapmirror_traffic_type_criteria.traffic_type</i>	<reg_and_peak_traffic_type>	Determines whether the query is for regular/peak traffic.	Default is regular; Values: regular, peak;
<i>snapmirror_traffic_type_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>snapmirror_traffic_type_criteria.<prop></i>	<any>		Optional;

Type: granite_io_traffic_type

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

JSON

```
string
```

Property Name	Type	Description	Notes
<i>granite_io_traffic_type</i>	<string>	Determines whether the query is for io/iops/io_time lun/initiator io traffic	Default is io; Values: io, iops, io_time;

Type: lun_io_criteria

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

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
<i>lun_io_criteria</i>	<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];
<i>lun_io_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>lun_io_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>lun_io_criteria.traffic_type</i>	<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;
<i>lun_io_criteria.lun_subclass_id</i>	<integer>		Optional;
<i>lun_io_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>lun_io_criteria.<prop></i>	<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
<i>lun_io_response_data</i>	<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. '	
<i>lun_io_response_data.query_criteria</i>	<lun_io_criteria>	A list of fields to be defined in the request body when querying for the SteelFusion LUN IO data	
<i>lun_io_response_data.granularity</i>	<granularity>	Specifies the granularity between successive time-series data	Values: 300, 3600;
<i>lun_io_response_data.response_data</i>	<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;
<i>lun_io_response_data.response_data [items]</i>	<object>		
<i>lun_io_response_data.response_data [items].timestamp</i>	<timestamp>	The epoch timestamp of this datapoint	Optional; Seconds since January 1, 1970;
<i>lun_io_response_data.response_data [items].data</i>	<array of <number>>	' The [num_of_reads, num_of_writes] 2-tuple for each data point for io/iops/io_time lun/initiator io data. '	Optional;
<i>lun_io_response_data.response_data [items].data [items]</i>	<number>		
<i>lun_io_response_data.response_data [items].<prop></i>	<any>		Optional;
<i>lun_io_response_data.<prop></i>	<any>		Optional;

Type: initiator_io_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>initiator_io_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the SteelFusion lun/initiator IO data	Required properties: [start_time, end_time, device];
<i>initiator_io_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>initiator_io_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>initiator_io_criteria.traffic_type</i>	<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;
<i>initiator_io_criteria.initiator_subclass_id</i>	<integer>		Optional;
<i>initiator_io_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '[a-zA-Z0-9]+';
<i>initiator_io_criteria.<prop></i>	<any>		Optional;

Type: network_io_criteria

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

JSON

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

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

Type: blockstore_criteria

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

JSON

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

Property Name	Type	Description	Notes
<i>blockstore_criteria</i>	<object>	A list of fields to be defined in the request body when querying for the SteelFusion blockstore data	Required properties: [start_time, end_time, device];
<i>blockstore_criteria.start_time</i>	<timestamp>		Seconds since January 1, 1970;

<i>blockstore_criteria.end_time</i>	<timestamp>		Seconds since January 1, 1970;
<i>blockstore_criteria.traffic_type</i>	<string>	Determines whether the query is for hit_miss/uncmtd_first_classid/uncmtd_last_classid/commit_throughput/commit_delay blockstore traffic	Optional; Default is commit_throughput; Values: hit_miss, uncmtd_first_classid, uncmtd_last_classid, commit_throughput, commit_delay;
<i>blockstore_criteria.lun_subclass_id</i>	<integer>		Optional;
<i>blockstore_criteria.device</i>	<device_id>	Case sensitive Device ID. Only alphanumeric permitted.	Pattern: '^[a-zA-Z0-9]+\$';
<i>blockstore_criteria.<prop></i>	<any>		Optional;

Type: logging_level

Severity levels for logs emitted by the service

JSON

string

Property Name	Type	Description	Notes
<i>logging_level</i>	<string>	Severity levels for logs emitted by the service	Values: crit, err, warning, notice, info, debug;