

# Report Manager API v1.0

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## Resource: data\_definition

A single data definition from a report instance

`http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}`

### JSON

```
{
  "act_as_source": boolean,
  "actual_centricity": string,
  "actual_filters": filter_criteria,
  "actual_source": data_def_source,
  "actual_time": {
    "granularities": [
      string
    ],
    "resolution": string,
    "time_ranges": time_pairs
  },
  "annotations": {
    <prop>: string
  },
  "available_columns": column_list,
  "centricity": string,
  "columns": column_list,
  "data": data_matrix,
  "datasource_id": string,
  "datasource_storage_key": string,
  "definition": data_definition,
  "filters": filter_criteria,
  "group_by": column_list,
  "id": integer,
  "limit": integer,
  "others": data_row,
  "reference_id": string,
  "report_id": integer,
  "source": data_def_source,
  "stats": {
    "completed": string,
    "created": string,
    "exec_time": string,
    "executing": string,
    "init_time": string,
    "initial_queue_pos": integer,
    "initialized": string,
    "initializing": string,
    "queue_time": string,
    "queued": string
  },
  "status": data_def_status,
  "subnet_by": {
    "mask_ipv4": integer,
    "mask_ipv6": integer
  },
  "summary_max_values": data_row,
  "summary_min_values": data_row,
  "synthetic": {
    "method": string,
    "sankey": {
      "levels": {
        <prop>: {
          "group_by": column_list,
          "limit": integer,
          "parent": string,
          <prop>: any
        }
      }
    },
    <prop>: any
  }
},
"time": {
  "duration": string,
  "end": string,
  "fh_profile_id": integer,
  "granularity": string,
  "max_num_bins": integer,
  "offset": string,
  "optimal_num_bins": integer,
  "required_resolutions": [
    string
  ],
  "resolution": string,
  "retention_time": string,

```

```

"start": string,
"time_ranges": time_pairs,
"timezone": string
},
"timeout": string,
"top_by": [
{
"direction": string,
"id": string,
<prop>: any
}
],
"total_number_rows": integer,
"totals": data_row,
"ts_max_values": ts_statistical_results,
"ts_min_values": ts_statistical_results,
"ts_percentile_values": ts_statistical_results,
"user_agent": string,
"with_max_values": boolean,
"with_min_values": boolean,
"with_percentile_values": integer,
"with_totals": boolean,
<prop>: any
}

```

Property Name	Type	Description	Notes
<i>data_definition</i>	<object>	A single data definition from a report instance	Required properties: [source];
<i>data_definition.act_as_source</i>	<boolean>	Make this object available to other data requests (using source.reference_id)	Optional;
<i>data_definition.actual_centricity</i>	<string>	Actual centricity used by the back-end data source. Used by network flow sources. When AUTO is requested, the back-end sets this to HOST or INTERFACE.	Optional; Values: HOST, INTERFACE;
<i>data_definition.actual_filters</i>	<filter_criteria>	Array of filter criteria.	
<i>data_definition.actual_source</i>	<data_def_source>	Data source specification for a data definition.	
<i>data_definition.actual_time</i>	<object>	Actual time frame returned by the data source based on data availability.	Optional;
<i>data_definition.actual_time.granularities</i>	<array of <string>>	Array of actual granularities used in the query.	Optional;
<i>data_definition.actual_time.granularities[items]</i>	<string>	Actual granularity used in the query.	
<i>data_definition.actual_time.resolution</i>	<string>	Actual resolution used in the query.	Optional;
<i>data_definition.actual_time.time_ranges</i>	<time_pairs>	Array of time range pairs.	
<i>data_definition.annotations</i>	<object>	Key-value pairs for statistical purposes	Optional;
<i>data_definition.annotations.&lt;prop&gt;</i>	<string>		Optional;
<i>data_definition.available_columns</i>	<column_list>	Collection of data column IDs.	
<i>data_definition.centricity</i>	<string>	For network flow sources, this parameter hints the back-end to calculate metrics from hosts point of view or from interfaces point of view.	Optional; Values: AUTO, HOST, INTERFACE;
<i>data_definition.columns</i>	<column_list>	Collection of data column IDs.	
<i>data_definition.data</i>	<data_matrix>	Array of results data rows within a data definition.	
<i>data_definition.datasouce_id</i>	<string>	Data source to which the data definition belongs. Globally unique within the system.	Read-only; Optional;
<i>data_definition.datasouce_storage_key</i>	<string>	Location within the datasouce in which data is stored	Read-only; Optional;
<i>data_definition.definition</i>	<data_definition>	A single data definition from a report instance	
<i>data_definition.filters</i>	<filter_criteria>	Array of filter criteria.	
<i>data_definition.group_by</i>	<column_list>	Collection of data column IDs.	
<i>data_definition.id</i>	<integer>	ID for the data definition. Unique within a single report instance.	Read-only; Optional;
<i>data_definition.limit</i>	<integer>	Limit returned data rows to the specified number.	Optional;
<i>data_definition.others</i>	<data_row>	Row of results data within a data definition.	
<i>data_definition.reference_id</i>	<string>	Corresponding data definition ID in the client system	Optional;
<i>data_definition.report_id</i>	<integer>	Report instance ID to which the data definition belongs.	Optional;
<i>data_definition.source</i>	<data_def_source>	Data source specification for a data definition.	
<i>data_definition.stats</i>	<object>	Overall statistics for a data definition.	Read-only; Optional;

<code>data_definition.stats.completed</code>	<code>&lt;string&gt;</code>	Date and time when the data definition execution was ended (regardless of final status). High-precision timestamp in Unix Epoch format.	Read-only; Optional;
<code>data_definition.stats.created</code>	<code>&lt;string&gt;</code>	Date and time when the data definition was created. High-precision timestamp in Unix Epoch format.	Read-only; Optional;
<code>data_definition.stats.exec_time</code>	<code>&lt;string&gt;</code>	The time it took to execute. High-precision duration (seconds).	Read-only; Optional;
<code>data_definition.stats.executing</code>	<code>&lt;string&gt;</code>	Date and time when the data definition started executing. High-precision timestamp in Unix Epoch format.	Read-only; Optional;
<code>data_definition.stats.init_time</code>	<code>&lt;string&gt;</code>	The time it took initialize. High-precision duration (seconds).	Read-only; Optional;
<code>data_definition.stats.initial_queue_pos</code>	<code>&lt;integer&gt;</code>	The queue position at the time it was first placed in the queue.	Read-only; Optional;
<code>data_definition.stats.initialized</code>	<code>&lt;string&gt;</code>	Deprecated and unused anymore.	Read-only; Optional;
<code>data_definition.stats.initializing</code>	<code>&lt;string&gt;</code>	Date and time when the data definition started initializing. High-precision timestamp in Unix Epoch format.	Read-only; Optional;
<code>data_definition.stats.queue_time</code>	<code>&lt;string&gt;</code>	The time it took waiting in the queue. High-precision duration (seconds).	Read-only; Optional;
<code>data_definition.stats.queued</code>	<code>&lt;string&gt;</code>	Date and time when the data definition was placed on the queue. High-precision timestamp in Unix Epoch format.	Read-only; Optional;
<code>data_definition.status</code>	<code>&lt;data_def_status&gt;</code>	Status for a data definition.	
<code>data_definition.subnet_by</code>	<code>&lt;object&gt;</code>	How to group IPs by subnet	Required properties: [mask_ipv4, mask_ipv6]; Optional;
<code>data_definition.subnet_by.mask_ipv4</code>	<code>&lt;integer&gt;</code>	Subnet CIDR mask for IPv4 Addresses	Range: 0 to 32;
<code>data_definition.subnet_by.mask_ipv6</code>	<code>&lt;integer&gt;</code>	Subnet CIDR mask for IPv6 Addresses	Range: 0 to 128;
<code>data_definition.summary_max_values</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_definition.summary_min_values</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_definition.synthetic</code>	<code>&lt;object&gt;</code>	Structure of a synthetic definition	Optional;
<code>data_definition.synthetic.method</code>	<code>&lt;string&gt;</code>		Optional;
<code>data_definition.synthetic.sankey</code>	<code>&lt;object&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.levels</code>	<code>&lt;object&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.levels.&lt;prop&gt;</code>	<code>&lt;object&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.levels.&lt;prop&gt;.group_by</code>	<code>&lt;column_list&gt;</code>	Collection of data column IDs.	
<code>data_definition.synthetic.sankey.levels.&lt;prop&gt;.limit</code>	<code>&lt;integer&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.levels.&lt;prop&gt;.parent</code>	<code>&lt;string&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.levels.&lt;prop&gt;.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>data_definition.synthetic.sankey.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>data_definition.time</code>	<code>&lt;object&gt;</code>	The time frame that was requested for a reporting query.	Optional;
<code>data_definition.time.duration</code>	<code>&lt;string&gt;</code>	Time frame duration. When combined with either a start time or end time (but not both), determines the desired report time frame. If specified, and no start/end time is present, it is used with an end time of now.	Optional;
<code>data_definition.time.end</code>	<code>&lt;string&gt;</code>	The start time. This is a high-precision time value in Unix Epoch format.	Optional;
<code>data_definition.time.fh_profile_id</code>	<code>&lt;integer&gt;</code>	Business Hour Profile ID	Optional; Minimum 1;
<code>data_definition.timegranularity</code>	<code>&lt;string&gt;</code>	For sources that support multiple data granularity/rollup levels, the preferred granularity. If unspecified, the system will choose a granularity.	Optional;
<code>data_definition.time.max_num_bins</code>	<code>&lt;integer&gt;</code>	For auto-resolution, the maximum number of bins that the client supports. The system will not exceed this.	Optional; Range: 1 to 20000;
<code>data_definition.time.offset</code>	<code>&lt;string&gt;</code>	Offset the start/end time by the given amount (e.g., '5 min' to offset the start and end time back by 5 minutes).	Optional;
<code>data_definition.time.optimal_num_bins</code>	<code>&lt;integer&gt;</code>	For auto-resolution, the preferred number of bins for the client. The system will attempt to pick a resolution as close to this as possible.	Optional; Range: 1 to 5000;

<code>data_definition.time.required_resolutions</code>	<code>&lt;array of &lt;string&gt;&gt;</code>	Array of resolutions. When auto-resolution is requested, the back end will limit its choice to one of these.	Optional;
<code>data_definition.time.required_resolutions[items]</code>	<code>&lt;string&gt;</code>	A required resolution.	
<code>data_definition.time.resolution</code>	<code>&lt;string&gt;</code>	The requested resolution bin time-range for returned data (e.g., show in 1-hour bins). System will automatically pick if not specified.	Optional;
<code>data_definition.time.retention_time</code>	<code>&lt;string&gt;</code>	Specifies the time to retain data before rollint it off the query. Required for live data definitions.	Optional;
<code>data_definition.time.start</code>	<code>&lt;string&gt;</code>	The start time. This is a high-precision time value in Unix Epoch format.	Optional;
<code>data_definition.time.time_ranges</code>	<code>&lt;time_pairs&gt;</code>	Array of time range pairs.	
<code>data_definition.time.timezone</code>	<code>&lt;string&gt;</code>	Timezone name. Used for calculations when <code>fh_profile_id</code> is provided.	Optional;
<code>data_definition.timeout</code>	<code>&lt;string&gt;</code>	Maximum time within which to return data.	Optional;
<code>data_definition.top_by</code>	<code>&lt;array of &lt;object&gt;&gt;</code>	Array of sort criteria.	Optional;
<code>data_definition.top_by[items]</code>	<code>&lt;object&gt;</code>	A single sorting criterion, with direction.	
<code>data_definition.top_by[items].direction</code>	<code>&lt;string&gt;</code>	Direction in which to sort.	Optional; Values: asc, desc;
<code>data_definition.top_by[items].id</code>	<code>&lt;string&gt;</code>	ID to sort by	Optional;
<code>data_definition.top_by[items].&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>data_definition.total_number_rows</code>	<code>&lt;integer&gt;</code>	Total number of available data rows.	Optional;
<code>data_definition.totals</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_definition.ts_max_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	
<code>data_definition.ts_min_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	
<code>data_definition.ts_percentile_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	
<code>data_definition.user_agent</code>	<code>&lt;string&gt;</code>	User agent string for the client that generated the report.	Read-only; Optional;
<code>data_definition.with_max_values</code>	<code>&lt;boolean&gt;</code>	Whether to return column max value with the data results when querying.	Optional;
<code>data_definition.with_min_values</code>	<code>&lt;boolean&gt;</code>	Whether to return column min value with the data results when querying.	Optional;
<code>data_definition.with_percentile_values</code>	<code>&lt;integer&gt;</code>	Whether to return column percentile value with the data results when querying.	Optional; Range: 80 to 95; Values: 80, 85, 90, 95;
<code>data_definition.with_totals</code>	<code>&lt;boolean&gt;</code>	Whether to return column totals with the data results when querying.	Optional;
<code>data_definition.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;

## Links

### data\_definition: delete

Delete a single data definition from a report instance

```
DELETE http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}
```

#### Response Body

On success, the server does not provide any body in the responses.

### data\_definition: get

Get a single data definition from a report instance

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}
```

#### Response Body

Returns a [data\\_definition](#) data object.

### data\_definition: get\_data

Get data definition data. For live data feeds, this will also trigger a data definition update.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}/data?limit,offset,start_time,end_time,resolution,top_by,nsamples,sort_by,filter,columns,test_error,stream}
```

## Response Body

Returns a [data\\_def\\_results](#) data object.

### data\_definition: get\_status

Get the status for a single data definition from a report instance. For live data feeds, this will also trigger a data definition update.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}/status
```

## Response Body

Returns a [data\\_def\\_status](#) data object.

### data\_definition: set

In a live report instance, update data for a single data definition

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/items/{id}
```

## Request Body

Provide a [data\\_definition](#) data object.

## Response Body

Returns a [data\\_definition](#) data object.

---

## Resource: data\_definitions

Data definitions for a report instance

```
http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs
```

### JSON

```
{
  "items": data_defs_list,
  "report_id": integer
}
```

Property Name	Type	Description	Notes
<i>data_definitions</i>	<i>&lt;object&gt;</i>	Data definitions for a report instance	Required properties: [items];
<i>data_definitions.items</i>	<i>&lt;data_defs_list&gt;</i>	Array of data definitions.	
<i>data_definitions.report_id</i>	<i>&lt;integer&gt;</i>	Report instance to which the data definitions belong.	Optional;

---

## Links

### data\_definitions: bulk\_create

Run multiple new data definition on an existing instance

```
POST http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/bulk_create
```

## Request Body

Provide a [data\\_defs\\_list](#) data object.

## Response Body

Returns a [data\\_defs\\_list](#) data object.

### data\_definitions: bulk\_delete

Delete multiple data definitions from an instance

```
POST http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs/bulk_delete
```

## Request Body

Provide a [multiple\\_ids](#) data object.

#### Response Body

Returns a [multiple\\_ids](#) data object.

### data\_definitions: create

Run a new data definition on an existing instance

```
POST http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs
```

#### Request Body

Provide a [data\\_definition](#) data object.

#### Response Body

Returns a [data\\_definition](#) data object.

### data\_definitions: get

Get all data definitions for an instance

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/data_defs
```

#### Response Body

Returns a [data\\_definitions](#) data object.

---

## Resource: instance

A single report instance

```
http://{device}/api/npm.reports/1.0/instances/items/{id}
```

#### JSON

```
{
  "access_rights": access\_rights\_obj,
  "created": string,
  "data_defs": data\_defs\_list,
  "id": integer,
  "idle_timeout": string,
  "info": report\_instance\_info,
  "last_modified": string,
  "live": boolean,
  "presentation": report\_instance\_presentation,
  "priority": string,
  "schedule_id": integer,
  "schedule_name": string,
  "template_id": integer,
  "template_name": string,
  "user_agent": string,
  "views": {
    "pdf": boolean,
    "raw_data": boolean
  },
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>instance</i>	<object>	A single report instance	Required properties: [data_defs];
<i>instance.access_rights</i>	< <a href="#">access_rights_obj</a> >	Specifies roles that have read/write access to an object. Users with read_write roles can read, update and delete the object. They can also share the object with other roles.	
<i>instance.created</i>	< <a href="#">string</a> >	Date and time at which the report was created. High precision timestamp in Unix Epoch format.	Optional;
<i>instance.data_defs</i>	< <a href="#">data_defs_list</a> >	Array of data definitions.	
<i>instance.id</i>	< <a href="#">integer</a> >	ID of the report instance	Read-only; Optional;
<i>instance.idle_timeout</i>	< <a href="#">string</a> >	Specifies the time to keep processing live data requests after last access (get info or get data).	Optional;
<i>instance.info</i>	< <a href="#">report_instance_info</a> >	General information for a report instance	

<i>instance.last_modified</i>	<string>	Date and time at which the report was last modified. High precision timestamp in Unix Epoch format.	Optional;
<i>instance.live</i>	<boolean>	Whether the instance is a live (continuously updating) instance, rather than a static instance.	Optional;
<i>instance.presentation</i>	<report_instance_presentation>	Client presentation information for a report instance	
<i>instance.priority</i>	<string>	FUTURE - Report instance priority. Not yet used.	Optional; Values: low, medium, high;
<i>instance.schedule_id</i>	<integer>	Schedule ID which generated the report instance.	Optional; Minimum 0;
<i>instance.schedule_name</i>	<string>	Schedule name which generated the report instance.	Optional;
<i>instance.template_id</i>	<integer>	Template ID on which the report instance was based.	Optional; Minimum 0;
<i>instance.template_name</i>	<string>	Template name on which the report instance was based.	Optional;
<i>instance.user_agent</i>	<string>	User agent string for the client that generated the report.	Read-only; Optional;
<i>instance.views</i>	<object>	Indicates which views, PDF or JSON (raw), are available for an instance	Required properties: [pdf, raw_data]; Optional;
<i>instance.views.pdf</i>	<boolean>	Whether rendered PDF is available.	Read-only;
<i>instance.views.raw_data</i>	<boolean>	Whether raw JSON data is available.	Read-only;
<i>instance.&lt;prop&gt;</i>	<any>		Optional;

## Links

### instance: delete

Delete a report instance

```
DELETE http://{device}/api/npm.reports/1.0/instances/items/{id}
```

#### Response Body

On success, the server does not provide any body in the responses.

### instance: get

Get a report instance. For live data feeds, this will also trigger an instance update to latest.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}
```

#### Response Body

Returns an [instance](#) data object.

### instance: get\_data

Get data for all data definitions on an instance. For live data feeds, this will also trigger an instance update to latest.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}/data
```

#### Response Body

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

#### JSON

```
{
  "data_defs": [ data_def_results ]
}
```

Property Name	Type	Description	Notes
<i>instance.links.get_data.response</i>	<object>	Data for all data definitions within a report instance.	
<i>instance.links.get_data.response.data_defs</i>	<array of <data_def_results>>	Array of data definition result sets.	Optional;
<i>instance.links.get_data.response.data_defs[items]</i>	<data_def_results>	Data results for one data definition	



## instance: get\_rights

Get the access rights for an instance

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}/access_rights
```

### Response Body

Returns an [access\\_rights\\_obj](#) data object.

## instance: get\_status

Get status for all data definitions on an instance. For live data feeds, this will also trigger an instance update to latest.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}/status
```

### Response Body

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

JSON

```
[ data_def_status ]
```

Property Name	Type	Description	Notes
<i>instance.links.get_status.response</i>	<i>&lt;array of &lt;data_def_status&gt;&gt;</i>	Array of data definition statuses.	
<i>instance.links.get_status.response [items]</i>	<i>&lt;data_def_status&gt;</i>	Status for a data definition.	

## instance: get\_view

Download an instance as PDF. The only accepted content-type is application-pdf.

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}/view
```

### Response Body

On success, the server does not provide any body in the responses.

## instance: replace\_sync

Update a report instance. This call will not return until the report completes.

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{id}/sync
```

### Request Body

Provide an [instance](#) data object.

### Response Body

Returns an [instance](#) data object.

## instance: set

Update a report instance

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{id}
```

### Request Body

Provide an [instance](#) data object.

### Response Body

Returns an [instance](#) data object.

## instance: set\_rights

Update the access rights for an instance

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{id}/access_rights
```

### Request Body

Provide an [access\\_rights\\_obj](#) data object.

### Response Body

On success, the server does not provide any body in the responses.

## instance: sync

Get a report instance. If the instance is still running, this call will not return until it completes

```
GET http://{device}/api/npm.reports/1.0/instances/items/{id}/sync
```

### Response Body

Returns an [instance](#) data object.

## Resource: instances

Collection of report instances. When limiting results via query, all parameters must match a report instance for it to show.

```
http://{device}/api/npm.reports/1.0/instances?  
sort,name,state,template_name,schedule_name,access_rights,access,schedule_id,tag,limit,sortby,offset,owner,template_id,description}
```

### JSON

```
{  
  "items": [ instance ],  
  "meta": {  
    "access": string,  
    "access_rights": string,  
    "count": integer,  
    "description": string,  
    "limit": integer,  
    "name": string,  
    "offset": integer,  
    "owner": string,  
    "schedule_id": string,  
    "schedule_name": string,  
    "sort": string,  
    "sortby": string,  
    "state": string,  
    "tag": string,  
    "template_id": string,  
    "template_name": string,  
    "total": integer  
  }  
}
```

Property Name	Type	Description	Notes
<i>instances</i>	<i>&lt;object&gt;</i>	Collection of report instances. When limiting results via query, all parameters must match a report instance for it to show.	Required properties: [items];
<i>instances.items</i>	<i>&lt;array of &lt;instance&gt;&gt;</i>	Array of report instances	
<i>instances.items[items]</i>	<i>&lt;instance&gt;</i>	A single report instance	
<i>instances.meta</i>	<i>&lt;object&gt;</i>	Meta data of the data set returned when a list of reports are fetched.	Optional;
<i>instances.meta.access</i>	<i>&lt;string&gt;</i>	Filters instances based on access. "all", returns all instances that the current authenticated user has access to. "private", returns all instances not shared with any roles that the current authenticated user has access to. "shared", returns all instances shared with one or more roles. "public" returns all objects marked public.	Optional; Values: all, private, shared, public;
<i>instances.meta.access_rights</i>	<i>&lt;string&gt;</i>	Filters instances based on access_rights. "all", returns all instances with read_only or read_write rights that the authenticated user has access to. "read_only", returns all instances with read_only rights that the authenticated user has access to. "read_write", Returns all instances with read_write rights that the authenticated user has access to.	Optional; Values: all, read_only, read_write;
<i>instances.meta.count</i>	<i>&lt;integer&gt;</i>	The actual number of reports returned for this request.	Optional;

<i>instances.meta.description</i>	<i>&lt;string&gt;</i>	Filters report instances based on the description param passed. Does a case-insensitive substring match.	Optional;
<i>instances.meta.limit</i>	<i>&lt;integer&gt;</i>	Maximum number report instances to be returned.	Optional;
<i>instances.meta.name</i>	<i>&lt;string&gt;</i>	Filters report instances based on the name param passed. Does a case-insensitive substring match.	Optional;
<i>instances.meta.offset</i>	<i>&lt;integer&gt;</i>	Start returning report instances from offset specified.	Optional;
<i>instances.meta.owner</i>	<i>&lt;string&gt;</i>	Filters report instances based on the owner param passed. Does a case sensitive exact match of each owner, not a substring comparison of each owner. Owners can be passed as comma-separated values. Report instances with at least one of the owners passed in the query string will be matched.	Optional;
<i>instances.meta.schedule_id</i>	<i>&lt;string&gt;</i>	Filters report instances based on the schedule_id param passed. schedule_id can be passed as comma-separated values. Report instances with one of the schedule_ids passed in the query string param will be matched.	Optional;
<i>instances.meta.schedule_name</i>	<i>&lt;string&gt;</i>	Filters report instances based on the schedule_name param passed. Does a case-insensitive substring match.	Optional;
<i>instances.meta.sort</i>	<i>&lt;string&gt;</i>	Sort direction.	Optional; Values: asc, desc;
<i>instances.meta.sortby</i>	<i>&lt;string&gt;</i>	Sort by specified field.	Optional; Values: name, description, owner, created, last_modified;
<i>instances.meta.state</i>	<i>&lt;string&gt;</i>	Filter by specified state.	Optional; Values: temporary, saved;
<i>instances.meta.tag</i>	<i>&lt;string&gt;</i>	Filters report instances based on the tag param passed. Does a case-insensitive exact match of each tag, not a substring comparison of each tag. Tags can be passed as comma-separated values. Report instances with at least one of the passed tags will be matched.	Optional;
<i>instances.meta.template_id</i>	<i>&lt;string&gt;</i>	Filters report instances based on the template_id param passed. template_id can be passed as comma-separated values. Report instances with one of the template_ids passed in the query string param will be matched.	Optional;
<i>instances.meta.template_name</i>	<i>&lt;string&gt;</i>	Filters report instances based on the template_name param passed. Does a case-insensitive substring match.	Optional;
<i>instances.meta.total</i>	<i>&lt;integer&gt;</i>	Total number of reports in the system that match the filter criteria.	Optional;

## Links

### instances: bulk\_delete

Bulk-delete multiple instances. Delete operation will be aborted and none of the instances will be deleted if the user does not have R/W access to any of the ids in the input list. Instance ids that do not exist (already deleted) will be ignored.

POST [http://{{device}}/api/npm.reports/1.0/instances/bulk\\_delete](http://{{device}}/api/npm.reports/1.0/instances/bulk_delete)

#### Request Body

Provide a request body with the following structure:

##### JSON

```
[
  integer
]
```

Property Name	Type	Description	Notes
<i>instances.links.bulk_delete.request</i>	<i>&lt;array of &lt;integer&gt;&gt;</i>	Array of report instance IDs	
<i>instances.links.bulk_delete.request [items]</i>	<i>&lt;integer&gt;</i>	Report instance ID	

#### Response Body

On success, the server does not provide any body in the responses.

### instances: bulk\_delete\_matching

Bulk-delete multiple instances. Delete operation will be aborted for the instances the user does not have R/W access to.

POST [http://{{device}}/api/npm.reports/1.0/instances/bulk\\_delete\\_matching](http://{{device}}/api/npm.reports/1.0/instances/bulk_delete_matching)

## Request Body

Provide a request body with the following structure:

### JSON

```
{
  "older_than": string,
  "schedule_id": integer,
  "template_id": integer,
  "user": string
}
```

Property Name	Type	Description	Notes
<i>instances.links.bulk_delete_matching.request</i>	<object>	Parameters to filter report instances	
<i>instances.links.bulk_delete_matching.request.older_than</i>	<string>	High precision timestamp in Unix Epoch format. Matches report instances older than the provided timestamp.	Optional;
<i>instances.links.bulk_delete_matching.request.schedule_id</i>	<integer>	Matches if the report instance was created as part of the specified schedule ID.	Optional; Minimum 0;
<i>instances.links.bulk_delete_matching.request.template_id</i>	<integer>	Matches if the report instance is based on the specified template ID.	Optional; Minimum 0;
<i>instances.links.bulk_delete_matching.request.user</i>	<string>	Performs a case-insensitive exact match against the owner of each report instance.	Optional;

## Response Body

On success, the server does not provide any body in the responses.

### instances: create

Run a report asynchronously

```
POST http://{device}/api/npm.reports/1.0/instances
```

#### Request Body

Provide an [instance](#) data object.

#### Response Body

Returns an [instance](#) data object.

### instances: create\_sync

Run a report synchronously. This call will not return until the report completes.

```
POST http://{device}/api/npm.reports/1.0/instances/sync
```

#### Request Body

Provide an [instance](#) data object.

#### Response Body

Returns an [instance](#) data object.

### instances: get

Get a list of report instances

```
GET http://{device}/api/npm.reports/1.0/instances{?
sort,name,state,template_name,schedule_name,access_rights,access,schedule_id,tag,limit,sortby,offset,owner,template_id,description}
```

#### Response Body

Returns an [instances](#) data object.

### instances: get\_tags

Collect tags from all instances by owner

```
GET http://{device}/api/npm.reports/1.0/instances/tags
```

## Response Body

Returns a [rpt\\_tags](#) data object.

## instances: refresh

Request a saved snapshots disk utilization refresh. This operation is executed in the background, and should complete within a few seconds.

```
POST http://{device}/api/npm.reports/1.0/instances/snapshots_disk_usage/refresh
```

## Request Body

Do not provide a request body.

## Response Body

On success, the server does not provide any body in the responses.

## instances: snapshots\_disk\_usage

Current quota and disk utilization of saved snapshots

```
GET http://{device}/api/npm.reports/1.0/instances/snapshots_disk_usage
```

## Response Body

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

### JSON

```
{
  "current_size_kb": integer,
  "quota_size_kb": integer
}
```

Property Name	Type	Description	Notes
<i>instances.links.snapshots_disk_usage.response</i>	<object>	Current size and allowed quota of snapshots	Required properties: [quota_size_kb, current_size_kb];
<i>instances.links.snapshots_disk_usage.response.current_size_kb</i>	<integer>	Current snapshots disk usage (collected hourly, or by manual update)	Read-only;
<i>instances.links.snapshots_disk_usage.response.quota_size_kb</i>	<integer>	Maximum quota for all disk snapshots	Read-only;

## instances: stream

Run a report synchronously, streaming data from the data source. If the report does not complete within 50 seconds, it will return a 201 Created response, and the client must re-attach as with a synchronous request.

```
POST http://{device}/api/npm.reports/1.0/instances/stream
```

## Request Body

Provide an [instance](#) data object.

## Response Body

Returns an [instance](#) data object.

---

## Resource: report\_instance\_info

General information for a report instance

```
http://{device}/api/npm.reports/1.0/instances/items/{report_id}/info
```

### JSON

```

{
  "description": string,
  "name": string,
  "report_id": integer,
  "state": string,
  "tags": tags_obj,
  <prop>: any
}

```

Property Name	Type	Description	Notes
<i>report_instance_info</i>	<object>	General information for a report instance	
<i>report_instance_info.description</i>	<string>	Description of the report instance	Optional;
<i>report_instance_info.name</i>	<string>	Name of the report instance	Optional;
<i>report_instance_info.report_id</i>	<integer>	ID of the report instance	Read-only; Optional;
<i>report_instance_info.state</i>	<string>	Persistence state of the report instance	Optional; Values: temporary, saved, transient;
<i>report_instance_info.tags</i>	<tags_obj>	Container for a set of report tags.	
<i>report_instance_info.&lt;prop&gt;</i>	<any>		Optional;

## Links

### report\_instance\_info: get

Get the report info for an instance

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/info
```

#### Response Body

Returns a [report\\_instance\\_info](#) data object.

### report\_instance\_info: set

Replace the report info for an instance

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{report_id}/info
```

#### Request Body

Provide a [report\\_instance\\_info](#) data object.

#### Response Body

On success, the server does not provide any body in the responses.

## Resource: report\_instance\_presentation

Client presentation information for a report instance

```
http://{device}/api/npm.reports/1.0/instances/items/{report_id}/presentation
```

#### JSON

```

{
  "report_id": integer,
  <prop>: any
}

```

Property Name	Type	Description	Notes
<i>report_instance_presentation</i>	<object>	Client presentation information for a report instance	
<i>report_instance_presentation.report_id</i>	<integer>	Instance ID to which the presentation belongs.	Read-only; Optional;
<i>report_instance_presentation.&lt;prop&gt;</i>	<any>		Optional;

## Links

## report\_instance\_presentation: get

Get the presentation for an instance

```
GET http://{device}/api/npm.reports/1.0/instances/items/{report_id}/presentation
```

### Response Body

Returns a [report\\_instance\\_presentation](#) data object.

## report\_instance\_presentation: set

Replace the presentation for an instance

```
PUT http://{device}/api/npm.reports/1.0/instances/items/{report_id}/presentation
```

### Request Body

Provide a [report\\_instance\\_presentation](#) data object.

### Response Body

On success, the server does not provide any body in the responses.

---

## Resource: schedule

A single report schedule.

```
http://{device}/api/npm.reports/1.0/schedules/items/{id}
```

### JSON

```
{
  "access_rights": access\_rights\_obj,
  "created": string,
  "enabled": boolean,
  "err_message": run\_message,
  "execute_on": execution\_timestamps,
  "executing": boolean,
  "executing_job_id": integer,
  "id": integer,
  "info": schedule\_info,
  "last_executed": string,
  "last_modified": string,
  "notification_attachment_name": string,
  "notification_enabled": boolean,
  "notification_message": string,
  "num_instances": integer,
  "rrule": recurrence\_rule,
  "subscription": {
    "recipient_ids": [
      integer
    ],
    "subscription_id": integer,
    "to": [
      string
    ],
    <prop>: any
  },
  "template_id": integer,
  "template_name": string,
  "time": {
    "duration": string,
    "fh_profile_id": integer,
    "snap_to_previous": string
  },
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>schedule</i>	< <i>object</i> >	A single report schedule.	Required properties: [enabled, info, template_id, rrule, time];
<i>schedule.access_rights</i>	< <a href="#">access_rights_obj</a> >	Specifies roles that have read/write access to an object. Users with read_write roles can read, update and delete the object. They can also share the object with other roles.	
<i>schedule.created</i>	< <i>string</i> >		Optional;

<code>schedule.enabled</code>	<code>&lt;boolean&gt;</code>		
<code>schedule.err_message</code>	<code>&lt;run_message&gt;</code>	Runtime status message for a data definition.	
<code>schedule.execute_on</code>	<code>&lt;execution_timestamps&gt;</code>	Report Schedule's next execution times in relative to the Unix Epoch format.	
<code>schedule.executing</code>	<code>&lt;boolean&gt;</code>	Flag indicating if the schedule is executing at the moment	Read-only; Optional;
<code>schedule.executing_job_id</code>	<code>&lt;integer&gt;</code>		Optional;
<code>schedule.id</code>	<code>&lt;integer&gt;</code>		Read-only; Optional;
<code>schedule.info</code>	<code>&lt;schedule_info&gt;</code>	Information on a scheduled report	
<code>schedule.last_executed</code>	<code>&lt;string&gt;</code>		Optional;
<code>schedule.last_modified</code>	<code>&lt;string&gt;</code>		Optional;
<code>schedule.num_instances</code>	<code>&lt;integer&gt;</code>	Number of snapshots already generated by this schedule	Read-only; Optional;
<code>schedule.rrule</code>	<code>&lt;recurrence_rule&gt;</code>	Recurrence rule specification for report schedule. Implements (incompletely) the Recurrence Rule Specification from iCalendar RFC - <a href="http://www.ietf.org/rfc/rfc2445.txt">http://www.ietf.org/rfc/rfc2445.txt</a>	
<code>schedule.subscription</code>	<code>&lt;object&gt;</code>		Optional;
<code>schedule.subscription.recipient_ids</code>	<code>&lt;array of &lt;integer&gt;&gt;</code>	List of pre-defined recipient IDs.	Optional;
<code>schedule.subscription.recipient_ids [items]</code>	<code>&lt;integer&gt;</code>		
<code>schedule.subscription.subscription_id</code>	<code>&lt;integer&gt;</code>		Read-only; Optional;
<code>schedule.subscription.to</code>	<code>&lt;array of &lt;string&gt;&gt;</code>	List of emails.	Optional;
<code>schedule.subscription.to [items]</code>	<code>&lt;string&gt;</code>		
<code>schedule.subscription.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>schedule.template_id</code>	<code>&lt;integer&gt;</code>		
<code>schedule.template_name</code>	<code>&lt;string&gt;</code>	Name of the report template used for this schedule	Read-only; Optional;
<code>schedule.time</code>	<code>&lt;object&gt;</code>	Snapshot execution time range	Required properties: [duration, snap_to_previous];
<code>schedule.time.duration</code>	<code>&lt;string&gt;</code>	Length of time duration. Example: 1 hour.	
<code>schedule.time.fh_profile_id</code>	<code>&lt;integer&gt;</code>	Business Hour Profile ID	Optional; Minimum 1;
<code>schedule.time.snap_to_previous</code>	<code>&lt;string&gt;</code>	Calendar unit to snap the end of time range to.	Values: NONE, MINUTE, HOUR, DAY, WEEK, MONTH, QUARTER, YEAR;
<code>schedule.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>schedule.notification_attachment_name</code>	<code>&lt;string&gt;</code>		
<code>schedule.notification_enabled</code>	<code>&lt;boolean&gt;</code>		
<code>schedule.notification_message</code>	<code>&lt;string&gt;</code>		

## Links

### schedule: delete

Delete a report schedule

```
DELETE http://{device}/api/npm.reports/1.0/schedules/items/{id}
```

### Response Body

On success, the server does not provide any body in the responses.

### schedule: get

Get a report schedule

```
GET http://{device}/api/npm.reports/1.0/schedules/items/{id}
```

### Response Body

Returns a [schedule](#) data object.

### schedule: set

Update a report schedule



```
PUT http://{device}/api/npm.reports/1.0/schedules/items/{id}
```

#### Request Body

Provide a [schedule](#) data object.

#### Response Body

Returns a [schedule](#) data object.

---

## Resource: schedule\_info

Information on a scheduled report

```
http://{device}/api/npm.reports/1.0/schedules/items/{schedule_id}/info
```

#### JSON

```
{
  "description": string,
  "name": string,
  "schedule_id": integer,
  "tags": tags_obj,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>schedule_info</i>	<i>&lt;object&gt;</i>	Information on a scheduled report	Required properties: [name];
<i>schedule_info.description</i>	<i>&lt;string&gt;</i>		Optional;
<i>schedule_info.name</i>	<i>&lt;string&gt;</i>		
<i>schedule_info.schedule_id</i>	<i>&lt;integer&gt;</i>		Read-only; Optional;
<i>schedule_info.tags</i>	<i>&lt;tags_obj&gt;</i>	Container for a set of report tags.	
<i>schedule_info.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;

---

## Links

### schedule\_info: get

Get the info for a scheduled report

```
GET http://{device}/api/npm.reports/1.0/schedules/items/{schedule_id}/info
```

#### Response Body

Returns a [schedule\\_info](#) data object.

### schedule\_info: set

Replace the info for a scheduled report

```
PUT http://{device}/api/npm.reports/1.0/schedules/items/{schedule_id}/info
```

#### Request Body

Provide a [schedule\\_info](#) data object.

#### Response Body

On success, the server does not provide any body in the responses.

---

## Resource: schedules

List of scheduled reports

```
http://{device}/api/npm.reports/1.0/schedules{?
sort,name,template_name,access_rights,access,tag,limit,sortby,offset,owner,template_id,description}
```

#### JSON

```

{
  "items": [ schedule ],
  "meta": {
    "access": string,
    "access_rights": string,
    "count": integer,
    "description": string,
    "limit": integer,
    "name": string,
    "offset": integer,
    "owner": string,
    "sort": string,
    "sortby": string,
    "tag": string,
    "template_id": string,
    "template_name": string,
    "total": integer
  }
}

```

Property Name	Type	Description	Notes
<i>schedules</i>	<object>	List of scheduled reports	Required properties: [items];
<i>schedules.items</i>	<array of < <i>schedule</i> >>		
<i>schedules.items[items]</i>	< <i>schedule</i> >	A single report schedule.	
<i>schedules.meta</i>	<object>	Meta data of the data set returned when a list of schedules are fetched.	Optional;
<i>schedules.meta.access</i>	<string>	Schedules filtered by this access param in the query string	Optional;
<i>schedules.meta.access_rights</i>	<string>	Schedules filtered by this access_rights param in the query string	Optional;
<i>schedules.meta.count</i>	<integer>	The actual number of rows returned as for this request.	Optional;
<i>schedules.meta.description</i>	<string>	Schedules filtered by this description param in the query string	Optional;
<i>schedules.meta.limit</i>	<integer>	The maximum number rows to return. 0 means no limit.	Optional;
<i>schedules.meta.name</i>	<string>	Schedules filtered by this name param in the query string	Optional;
<i>schedules.meta.offset</i>	<integer>	Number of schedules to be skipped as specified by offset. Offset value of 0 will be ignored.	Optional;
<i>schedules.meta.owner</i>	<string>	Schedules filtered by this owner param in the query string	Optional;
<i>schedules.meta.sort</i>	<string>	Schedules sorted on param in the query string	Optional;
<i>schedules.meta.sortby</i>	<string>	Schedules sorted by ascending or descending	Optional;
<i>schedules.meta.tag</i>	<string>	Schedules filtered by this tag/tags param in the query string	Optional;
<i>schedules.meta.template_id</i>	<string>		Optional;
<i>schedules.meta.template_name</i>	<string>	Schedules filtered by this template name param in the query string	Optional;
<i>schedules.meta.total</i>	<integer>	Total number of rows that exists for the requested resource	Optional;

## Links

### schedules: bulk\_delete

Bulk-delete multiple scheduled reports. Delete operation will be aborted and none of the schedules will be deleted if the user does not have R/W access to any of the ids in the input list. Schedule ids that do not exist will be ignored.

POST [http://{{device}}/api/npm.reports/1.0/schedules/bulk\\_delete](http://{{device}}/api/npm.reports/1.0/schedules/bulk_delete)

#### Request Body

Provide a [schedule\\_ids](#) data object.

#### Response Body

Returns a [schedule\\_ids](#) data object.

### schedules: create

Set up a scheduled report.

```
POST http://{device}/api/npm.reports/1.0/schedules{?
sort,name,template_name,access_rights,access,tag,limit,sortby,offset,owner,template_id,description}
```

#### Request Body

Provide a [schedule](#) data object.

#### Response Body

Returns a [schedule](#) data object.

### schedules: execute\_rrule

For the given recurrence rule, calculate the corresponding schedule execution times.

```
POST http://{device}/api/npm.reports/1.0/schedules/execute_rrule
```

#### Request Body

Provide a [recurrence\\_rule](#) data object.

#### Response Body

Returns an [execution\\_timestamps](#) data object.

### schedules: export

Get full version of all scheduled reports.

```
GET http://{device}/api/npm.reports/1.0/schedules/export
```

#### Response Body

Returns a [schedules](#) data object.

### schedules: get

Get a list of scheduled reports.

```
GET http://{device}/api/npm.reports/1.0/schedules{?
sort,name,template_name,access_rights,access,tag,limit,sortby,offset,owner,template_id,description}
```

#### Response Body

Returns a [schedules](#) data object.

### schedules: get\_fhps

Collect business hour profiles from all schedules

```
GET http://{device}/api/npm.reports/1.0/schedules/fh_profiles
```

#### Response Body

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

JSON

```
{
  "items": [ <schd_fh Obj> ]
}
```

Property Name	Type	Description	Notes
<i>schedules.links.get_fhps.response</i>	<object>	Container for all business hour profiles in report schedules.	Required properties: [items];
<i>schedules.links.get_fhps.response.items</i>	<array of <schd_fh Obj>>	Array of report schedule business hour profile.	
<i>schedules.links.get_fhps.response.items [items]</i>	<schd_fh Obj>	A single pair of report schedule and business hour profile.	

### schedules: get\_tags

Collect tags from all schedules by owner

```
GET http://{device}/api/npm.reports/1.0/schedules/tags
```

## Response Body

Returns a [rpt\\_tags](#) data object.

## Resource: template

A single report template

```
http://{device}/api/npm.reports/1.0/templates/items/{id}
```

### JSON

```
{
  "access_rights": access\_rights\_obj,
  "created": string,
  "id": integer,
  "info": template\_info,
  "last_modified": string,
  "num_schedules": integer,
  "override": integer,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>template</i>	<i>&lt;object&gt;</i>	A single report template	Required properties: [info];
<i>template.access_rights</i>	<i>&lt;access_rights_obj&gt;</i>	Specifies roles that have read/write access to an object. Users with read_write roles can read, update and delete the object. They can also share the object with other roles.	
<i>template.created</i>	<i>&lt;string&gt;</i>		Optional;
<i>template.id</i>	<i>&lt;integer&gt;</i>		Read-only; Optional;
<i>template.info</i>	<i>&lt;template_info&gt;</i>	Information about a report template	
<i>template.last_modified</i>	<i>&lt;string&gt;</i>		Optional;
<i>template.num_schedules</i>	<i>&lt;integer&gt;</i>	Number of schedules already generated by this template	Optional;
<i>template.override</i>	<i>&lt;integer&gt;</i>		Read-only; Optional;
<i>template.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;

## Links

### template: delete

Delete a report template

```
DELETE http://{device}/api/npm.reports/1.0/templates/items/{id}
```

## Response Body

On success, the server does not provide any body in the responses.

### template: get

Get a report template

```
GET http://{device}/api/npm.reports/1.0/templates/items/{id}
```

## Response Body

Returns a [template](#) data object.

### template: get\_rights

Get the access rights for a report template

```
GET http://{device}/api/npm.reports/1.0/templates/items/{id}/access_rights
```

## Response Body

Returns an [access\\_rights\\_obj](#) data object.

## template: set

Update a report template

```
PUT http://{device}/api/npm.reports/1.0/templates/items/{id}
```

## Request Body

Provide a [template](#) data object.

## Response Body

Returns a [template](#) data object.

## template: set\_rights

Update the access rights for a report template

```
PUT http://{device}/api/npm.reports/1.0/templates/items/{id}/access_rights
```

## Request Body

Provide an [access\\_rights\\_obj](#) data object.

## Response Body

On success, the server does not provide any body in the responses.

---

## Resource: template\_info

Information about a report template

```
http://{device}/api/npm.reports/1.0/templates/items/{template_id}/info
```

### JSON

```
{
  "built_in": boolean,
  "client_source": string,
  "description": string,
  "name": string,
  "navigator": boolean,
  "overridden": boolean,
  "schedulable": boolean,
  "tags": tags_obj,
  "template_id": integer,
  "type": string,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>template_info</i>	<i>&lt;object&gt;</i>	Information about a report template	Required properties: [name, client_source];
<i>template_info.built_in</i>	<i>&lt;boolean&gt;</i>		Read-only; Optional;
<i>template_info.client_source</i>	<i>&lt;string&gt;</i>		Values: ALLOY_CLIENT, WEB_UI;
<i>template_info.description</i>	<i>&lt;string&gt;</i>		Optional;
<i>template_info.name</i>	<i>&lt;string&gt;</i>		
<i>template_info.navigator</i>	<i>&lt;boolean&gt;</i>		Optional;
<i>template_info.overridden</i>	<i>&lt;boolean&gt;</i>		Read-only; Optional;
<i>template_info.schedulable</i>	<i>&lt;boolean&gt;</i>		Optional;
<i>template_info.tags</i>	<i>&lt;tags_obj&gt;</i>	Container for a set of report tags.	
<i>template_info.template_id</i>	<i>&lt;integer&gt;</i>		Read-only; Optional;
<i>template_info.type</i>	<i>&lt;string&gt;</i>		Optional; Values: INTERACTIVE, DASHBOARD, REPORT, FAVORITES, HIDDEN;
<i>template_info.&lt;prop&gt;</i>	<i>&lt;any&gt;</i>		Optional;

---

## Links

## template\_info: get

Get the info for a report template

```
GET http://{device}/api/npm.reports/1.0/templates/items/{template_id}/info
```

### Response Body

Returns a [template\\_info](#) data object.

## template\_info: set

Replace the info for a report template

```
PUT http://{device}/api/npm.reports/1.0/templates/items/{template_id}/info
```

### Request Body

Provide a [template\\_info](#) data object.

### Response Body

On success, the server does not provide any body in the responses.

## Resource: templates

List of system report templates

```
http://{device}/api/npm.reports/1.0/templates{?  
sort,schedulable,description,access_rights,client_source,access,tag,limit,sortby,offset,owner,built_in,type,navigator,name}
```

### JSON

```
{  
  "items": [ template ],  
  "meta": {  
    "access": string,  
    "access_rights": string,  
    "built_in": boolean,  
    "client_source": string,  
    "count": integer,  
    "description": string,  
    "limit": integer,  
    "name": string,  
    "navigator": boolean,  
    "offset": integer,  
    "owner": string,  
    "schedulable": boolean,  
    "sort": string,  
    "sortby": string,  
    "tag": string,  
    "total": integer,  
    "type": string  
  }  
}
```

Property Name	Type	Description	Notes
<i>templates</i>	<i>&lt;object&gt;</i>	List of system report templates	Required properties: [items];
<i>templates.items</i>	<i>&lt;array of &lt;template&gt;&gt;</i>		
<i>templates.items[items]</i>	<i>&lt;template&gt;</i>	A single report template	
<i>templates.meta</i>	<i>&lt;object&gt;</i>	Meta data of the data set returned when a list of templates are fetched.	Optional;
<i>templates.meta.access</i>	<i>&lt;string&gt;</i>	Templates filtered by this access param in the query string	Optional;
<i>templates.meta.access_rights</i>	<i>&lt;string&gt;</i>	Templates filtered by this access_rights param in the query string	Optional;
<i>templates.meta.built_in</i>	<i>&lt;boolean&gt;</i>	Templates filtered by this built_in param in the query string	Optional;
<i>templates.meta.client_source</i>	<i>&lt;string&gt;</i>	Templates filtered by this client_source param in the query string	Optional;
<i>templates.meta.count</i>	<i>&lt;integer&gt;</i>	The actual number of rows returned as for this request.	Optional;

<code>templates.meta.description</code>	<code>&lt;string&gt;</code>	Templates filtered by this description param in the query string	Optional;
<code>templates.meta.limit</code>	<code>&lt;integer&gt;</code>	The maximum number rows to return. 0 means no limit.	Optional;
<code>templates.meta.name</code>	<code>&lt;string&gt;</code>	Templates filtered by this name param in the query string	Optional;
<code>templates.meta.navigator</code>	<code>&lt;boolean&gt;</code>	Templates filtered by this navigator param in the query string	Optional;
<code>templates.meta.offset</code>	<code>&lt;integer&gt;</code>	Number of templates to be skipped as specified by offset. Offset value of 0 will be ignored.	Optional;
<code>templates.meta.owner</code>	<code>&lt;string&gt;</code>	Templates filtered by this owner param in the query string	Optional;
<code>templates.meta.schedulable</code>	<code>&lt;boolean&gt;</code>	Templates filtered by this schedulable param in the query string	Optional;
<code>templates.meta.sort</code>	<code>&lt;string&gt;</code>	Templates sorted on param in the query string	Optional;
<code>templates.meta.sortby</code>	<code>&lt;string&gt;</code>	Templates sorted by ascending or descending	Optional;
<code>templates.meta.tag</code>	<code>&lt;string&gt;</code>	Templates filtered by this tag/tags param in the query string	Optional;
<code>templates.meta.total</code>	<code>&lt;integer&gt;</code>	Total number of rows that exists for the requested resource	Optional;
<code>templates.meta.type</code>	<code>&lt;string&gt;</code>	Templates filtered by this type param in the query string	Optional;

## Links

### templates: built\_in\_version

Get the current version of built-in template content

```
GET http://{device}/api/npm.reports/1.0/templates/built_in_version
```

#### Response Body

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

##### JSON

```
{
  "version": string,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<code>templates.links.built_in_version.response</code>	<code>&lt;object&gt;</code>		
<code>templates.links.built_in_version.response.version</code>	<code>&lt;string&gt;</code>		Optional;
<code>templates.links.built_in_version.response.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;

### templates: bulk\_delete

Bulk-delete multiple templates. Delete operation will be aborted and none of the templates will be deleted if the user does not have R/W access to any of the ids in the input list, or if the template a built-in template. template ids that do not exist will be ignored.

```
POST http://{device}/api/npm.reports/1.0/templates/bulk_delete
```

#### Request Body

Provide a [template\\_ids](#) data object.

#### Response Body

Returns a [template\\_ids](#) data object.

### templates: create

Create a new report template

```
POST http://{device}/api/npm.reports/1.0/templates{?
  sort,schedulable,description,access_rights,client_source,access,tag,limit,sortby,offset,owner,built_in,type,navigator,name}
```

## Request Body

Provide a [template](#) data object.

## Response Body

Returns a [template](#) data object.

## templates: export

Get full version of all report templates

```
GET http://{device}/api/npm.reports/1.0/templates/export
```

## Response Body

Returns a [templates](#) data object.

## templates: get

Get a list of report templates

```
GET http://{device}/api/npm.reports/1.0/templates{?
sort,schedulable,description,access_rights,client_source,access,tag,limit,sortby,offset,owner,built_in,type,navigator,name}
```

## Response Body

Returns a [templates](#) data object.

## templates: get\_tags

Collect tags from all templates by owner

```
GET http://{device}/api/npm.reports/1.0/templates/tags
```

## Response Body

Returns a [rpt\\_tags](#) data object.

## Type: access\_rights\_obj

Specifies roles that have read/write access to an object. Users with read\_write roles can read, update and delete the object. They can also share the object with other roles.

### JSON

```
{
  "effective": {
    "access_right": string,
    <prop>: any
  },
  "id": integer,
  "owner": string,
  "public": {
    "access_right": string,
    <prop>: any
  },
  "shared": {
    "read_only": roles_obj,
    "read_write": roles_obj,
    <prop>: any
  }
}
```

Property Name	Type	Description	Notes
<i>access_rights_obj</i>	<object>	Specifies roles that have read/write access to an object. Users with read_write roles can read, update and delete the object. They can also share the object with other roles.	
<i>access_rights_obj.effective</i>	<object>	Provides a summary of user's access to the object. This is a read-only type.	Required properties: [access_right]; Optional;
<i>access_rights_obj.effective.access_right</i>	<string>	Value READ_WRITE implies that the user has read_write access on the object. READ_ONLY implies the user has read only access. NONE implies the user has no access to the object being requested.	Read-only; Values: NONE, READ_ONLY, READ_WRITE;



<code>access_rights_obj.effective.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>access_rights_obj.id</code>	<code>&lt;integer&gt;</code>		Read-only; Optional;
<code>access_rights_obj.owner</code>	<code>&lt;string&gt;</code>		Read-only; Optional;
<code>access_rights_obj.public</code>	<code>&lt;object&gt;</code>	Indicates if an object/resource is public. All public objects/resource are read_only.	Required properties: [access_right]; Optional;
<code>access_rights_obj.public.access_right</code>	<code>&lt;string&gt;</code>		Values: READ_ONLY;
<code>access_rights_obj.public.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>access_rights_obj.shared</code>	<code>&lt;object&gt;</code>	Property read_only - Specifies a list of roles that have read_only access to the resource/object. Property read_write - Specifies a list of roles that have read_write access to the resource/object.	Optional;
<code>access_rights_obj.shared.read_only</code>	<code>&lt;roles_obj&gt;</code>		
<code>access_rights_obj.shared.read_write</code>	<code>&lt;roles_obj&gt;</code>		
<code>access_rights_obj.shared.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;

## Type: column\_list

Collection of data column IDs.

### JSON

```
[
  string
]
```

Property Name	Type	Description	Notes
<code>column_list</code>	<code>&lt;array of &lt;string&gt;&gt;</code>	Collection of data column IDs.	
<code>column_list[items]</code>	<code>&lt;string&gt;</code>	Data column ID.	

## Type: data\_def\_results

Data results for one data definition

### JSON

```
{
  "columns": column\_list,
  "data": data\_matrix,
  "datasource_id": string,
  "datasource_storage_key": string,
  "errors": run\_messages,
  "id": integer,
  "meta": {
    "count": integer,
    "end_time": string,
    "filter": string,
    "filtered": integer,
    "limit": integer,
    "offset": integer,
    "resolution": string,
    "sort_by": string,
    "start_time": string,
    "total": integer
  },
  "others": data\_row,
  "reference_id": string,
  "summary_max_values": data\_row,
  "summary_min_values": data\_row,
  "totals": data\_row,
  "ts_max_values": ts\_statistical\_results,
  "ts_min_values": ts\_statistical\_results,
  "ts_percentile_values": ts\_statistical\_results
}
```

Property Name	Type	Description	Notes
<code>data_def_results</code>	<code>&lt;object&gt;</code>	Data results for one data definition	
<code>data_def_results.columns</code>	<code>&lt;column_list&gt;</code>	Collection of data column IDs.	
<code>data_def_results.data</code>	<code>&lt;data_matrix&gt;</code>	Array of results data rows within a data definition.	

<code>data_def_results.datasource_id</code>	<code>&lt;string&gt;</code>	Data source to which the results belong.	Read-only; Optional;
<code>data_def_results.datasource_storage_key</code>	<code>&lt;string&gt;</code>	Location within the datasource in which data is stored	Read-only; Optional;
<code>data_def_results.errors</code>	<code>&lt;run_messages&gt;</code>	Array of runtime status messages for a data definition.	
<code>data_def_results.id</code>	<code>&lt;integer&gt;</code>	Data definition ID to which the results belong.	Read-only; Optional;
<code>data_def_results.meta</code>	<code>&lt;object&gt;</code>	Information about a data definition's data results.	Optional;
<code>data_def_results.meta.count</code>	<code>&lt;integer&gt;</code>	The number of data rows returned in the current results after filtering	Optional;
<code>data_def_results.meta.end_time</code>	<code>&lt;string&gt;</code>	The end time of a live data request. A high-precision time value, based on Unix Epoch time.	Optional;
<code>data_def_results.meta.filter</code>	<code>&lt;string&gt;</code>	A Steelfilter expression to filter results.	Optional;
<code>data_def_results.meta.filtered</code>	<code>&lt;integer&gt;</code>	Total number of data rows matching the filter.	Optional;
<code>data_def_results.meta.limit</code>	<code>&lt;integer&gt;</code>	The maximum number of data rows to return. 0 means no limit.	Optional;
<code>data_def_results.meta.offset</code>	<code>&lt;integer&gt;</code>	Skip the specified number of rows before starting to return data.	Optional;
<code>data_def_results.meta.resolution</code>	<code>&lt;string&gt;</code>	The resolution to use for a live data request.	Optional;
<code>data_def_results.meta.sort_by</code>	<code>&lt;string&gt;</code>	Sort by specified column. Format is a comma separated list, with a column id and direction for each entry (column_id1 desc,column_id2 asc)	Optional;
<code>data_def_results.meta.start_time</code>	<code>&lt;string&gt;</code>	The start time of a live data request. A high-precision time value, based on Unix Epoch time.	Optional;
<code>data_def_results.meta.total</code>	<code>&lt;integer&gt;</code>	Total number of available data rows.	Optional;
<code>data_def_results.others</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_def_results.reference_id</code>	<code>&lt;string&gt;</code>	Corresponding data definition ID in the client system	Read-only; Optional;
<code>data_def_results.summary_max_values</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_def_results.summary_min_values</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_def_results.totals</code>	<code>&lt;data_row&gt;</code>	Row of results data within a data definition.	
<code>data_def_results.ts_max_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	
<code>data_def_results.ts_min_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	
<code>data_def_results.ts_percentile_values</code>	<code>&lt;ts_statistical_results&gt;</code>	Array of statistical result rows.	

## Type: data\_def\_source

Data source specification for a data definition.

### JSON

```
{
  "name": string,
  "origin": string,
  "path": string,
  "reference_id": string,
  "tags": [
    string
  ],
  "type": string,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<code>data_def_source</code>	<code>&lt;object&gt;</code>	Data source specification for a data definition.	Required properties: [name];
<code>data_def_source.name</code>	<code>&lt;string&gt;</code>	Name of the data source for the data definition.	
<code>data_def_source.origin</code>	<code>&lt;string&gt;</code>	The origin data source for a query that is performing a sub-query into another data source (e.g., alerting requesting into system_metrics). Required in these cases for data column validation.	Optional;
<code>data_def_source.path</code>	<code>&lt;string&gt;</code>	Reference path to the requested data from within the data source.	Optional;
<code>data_def_source.reference_id</code>	<code>&lt;string&gt;</code>	Reference to another data_def which will be used as a source to this one.	Optional;
<code>data_def_source.tags</code>	<code>&lt;array of &lt;string&gt;&gt;</code>	Custom labels for this data source	Optional;
<code>data_def_source.tags[items]</code>	<code>&lt;string&gt;</code>		

<code>data_def_source.type</code>	<code>&lt;string&gt;</code>	Data type requested	Optional;
<code>data_def_source.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;

## Type: data\_def\_status

Status for a data definition.

### JSON

```
{
  "datasource_id": string,
  "datasource_storage_key": string,
  "id": integer,
  "messages": run_messages,
  "progress": {
    "percent": integer,
    "processed_records": integer,
    "remaining_sec": integer,
    "total_records": integer
  },
  "reference_id": string,
  "state": string
}
```

Property Name	Type	Description	Notes
<code>data_def_status</code>	<code>&lt;object&gt;</code>	Status for a data definition.	
<code>data_def_status.datasource_id</code>	<code>&lt;string&gt;</code>	Data source to which the data definition belongs.	Read-only; Optional;
<code>data_def_status.datasource_storage_key</code>	<code>&lt;string&gt;</code>	Location within the datasource in which data is stored	Read-only; Optional;
<code>data_def_status.id</code>	<code>&lt;integer&gt;</code>	Data definition ID to which the status belongs.	Read-only; Optional;
<code>data_def_status.messages</code>	<code>&lt;run_messages&gt;</code>	Array of runtime status messages for a data definition.	
<code>data_def_status.progress</code>	<code>&lt;object&gt;</code>	Details about the current progress of a running query.	Optional;
<code>data_def_status.progress.percent</code>	<code>&lt;integer&gt;</code>	Percentage of the total query that has been executed so far.	Optional; Range: 0 to 100;
<code>data_def_status.progress.processed_records</code>	<code>&lt;integer&gt;</code>		Optional; Minimum 0;
<code>data_def_status.progress.remaining_sec</code>	<code>&lt;integer&gt;</code>	Estimated number of seconds remaining in the query.	Optional; Minimum 0;
<code>data_def_status.progress.total_records</code>	<code>&lt;integer&gt;</code>		Optional; Minimum 0;
<code>data_def_status.reference_id</code>	<code>&lt;string&gt;</code>	Corresponding data definition ID in the client system	Read-only; Optional;
<code>data_def_status.state</code>	<code>&lt;string&gt;</code>	Current execution state of the data definition.	Optional; Values: pending, initializing, executing, completed, error, collecting;

## Type: data\_defs\_list

Array of data definitions.

### JSON

```
[ data_definition ]
```

Property Name	Type	Description	Notes
<code>data_defs_list</code>	<code>&lt;array of &lt;data_definition&gt;&gt;</code>	Array of data definitions.	
<code>data_defs_list[items]</code>	<code>&lt;data_definition&gt;</code>	A single data definition from a report instance	

## Type: data\_matrix

Array of results data rows within a data definition.

### JSON

```
[ data_row ]
```

Property Name	Type	Description	Notes
<i>data_matrix</i>	<array of <data_row>>	Array of results data rows within a data definition.	
<i>data_matrix</i> [items]	<data_row>	Row of results data within a data definition.	

## Type: data\_row

Row of results data within a data definition.

### JSON

```
[
  string
]
```

Property Name	Type	Description	Notes
<i>data_row</i>	<array of <string>>	Row of results data within a data definition.	
<i>data_row</i> [items]	<string>		

## Type: execution\_timestamps

Report Schedule's next execution times in relative to the Unix Epoch format.

### JSON

```
[
  string
]
```

Property Name	Type	Description	Notes
<i>execution_timestamps</i>	<array of <string>>	Report Schedule's next execution times in relative to the Unix Epoch format.	
<i>execution_timestamps</i> [items]	<string>		

## Type: filter\_criteria

Array of filter criteria.

### JSON

```
[
  {
    "context": string,
    "id": string,
    "type": filter_criterion_type,
    "value": string,
    <prop>: any
  }
]
```

Property Name	Type	Description	Notes
<i>filter_criteria</i>	<array of <object>>	Array of filter criteria.	
<i>filter_criteria</i> [items]	<object>	A single filter criterion to use on the query data.	
<i>filter_criteria</i> [items].context	<string>	Context from which the filter was applied (e.g., user request, data drill-down, etc).	Optional; Values: NONE, INTERNAL, USER, DRILL_DOWN;
<i>filter_criteria</i> [items].id	<string>	Filter criterion ID.	Optional;
<i>filter_criteria</i> [items].type	<filter_criterion_type>	The type of filter used on the data.	Values: STEELFILTER, WIRESHARK, BPF;
<i>filter_criteria</i> [items].value	<string>	Query filter text to use.	Optional;
<i>filter_criteria</i> [items].<prop>	<any>		Optional;

## Type: filter\_criterion\_type

The type of filter used on the data.

#### JSON

```
string
```

Property Name	Type	Description	Notes
<i>filter_criterion_type</i>	<i>&lt;string&gt;</i>	The type of filter used on the data.	Values: STEELFILTER, WIRESHARK, BPF;

## Type: multiple\_ids

Array of IDs.

#### JSON

```
[  
  integer  
]
```

Property Name	Type	Description	Notes
<i>multiple_ids</i>	<i>&lt;array of &lt;integer&gt;&gt;</i>	Array of IDs.	
<i>multiple_ids[items]</i>	<i>&lt;integer&gt;</i>	ID.	

## Type: recurrence\_rule

Recurrence rule specification for report schedule. Implements(incompletely) the Recurrence Rule Specification from iCalendar RFC - <http://www.ietf.org/rfc/rfc2445.txt>

#### JSON

```
{  
  "allow_past_times": boolean,  
  "byday": [  
    string  
  ],  
  "byhour": [  
    integer  
  ],  
  "byminute": [  
    integer  
  ],  
  "bymonth": [  
    integer  
  ],  
  "bymonthday": [  
    integer  
  ],  
  "bysecond": [  
    integer  
  ],  
  "bysetpos": [  
    integer  
  ],  
  "count": integer,  
  "dtstart": string,  
  "freq": string,  
  "interval": integer,  
  "timezone": string,  
  "until": string  
}
```

Property Name	Type	Description	Notes
<i>recurrence_rule</i>	<i>&lt;object&gt;</i>	Recurrence rule specification for report schedule. Implements(incompletely) the Recurrence Rule Specification from iCalendar RFC - <a href="http://www.ietf.org/rfc/rfc2445.txt">http://www.ietf.org/rfc/rfc2445.txt</a>	Required properties: [freq];
<i>recurrence_rule.allow_past_times</i>	<i>&lt;boolean&gt;</i>	Allow calculating rules for times in the past. If not set, or set to false, the result rules will always be in the future regardless of what dtstart is passed.	Optional;

<i>recurrence_rule.byday</i>	<array of <string>>	Specifies days of the week.	Optional;
<i>recurrence_rule.byday</i> [items]	<string>		Values: SU, MO, TU, WE, TH, FR, SA;
<i>recurrence_rule.byhour</i>	<array of <integer>>	Specifies hours of the day.	Optional;
<i>recurrence_rule.byhour</i> [items]	<integer>		Range: 0 to 23;
<i>recurrence_rule.byminute</i>	<array of <integer>>	Specifies minutes within an hour.	Optional;
<i>recurrence_rule.byminute</i> [items]	<integer>		Range: 0 to 59;
<i>recurrence_rule.bymonth</i>	<array of <integer>>	Specifies array of the months of the year.	Optional;
<i>recurrence_rule.bymonth</i> [items]	<integer>		Range: 1 to 12;
<i>recurrence_rule.bymonthday</i>	<array of <integer>>	Specifies array of days of the month. 0 is invalid value.	Optional;
<i>recurrence_rule.bymonthday</i> [items]	<integer>		Range: -31 to 31;
<i>recurrence_rule.bysecond</i>	<array of <integer>>	Specifies seconds within a minute.	Optional;
<i>recurrence_rule.bysecond</i> [items]	<integer>		Range: 0 to 59;
<i>recurrence_rule.bysetpos</i>	<array of <integer>>	Specifies the nth occurrence within the set of events specified by the rule. 0 is invalid value. It MUST only be used in conjunction with another BYxxx rule part.	Optional;
<i>recurrence_rule.bysetpos</i> [items]	<integer>		Range: -366 to 366;
<i>recurrence_rule.count</i>	<integer>	Specifies the number of occurrences, either until or count must be specified, but not both.	Optional;
<i>recurrence_rule.dtstart</i>	<string>	Specifies when the recurrence begins. High precision timestamp relative to the Unix Epoch.	Optional;
<i>recurrence_rule.freq</i>	<string>	Type of recurrence rule, to specify repeating events based on an interval of freq.	Values: YEARLY, QUARTERLY, MONTHLY, WEEKLY, DAILY, HOURLY, ONETIME;
<i>recurrence_rule.interval</i>	<integer>	Specifies how often the recurrence rule repeats.	Optional;
<i>recurrence_rule.timezone</i>	<string>	Specifies when the time zone. Example: Europe/Budapest. If not specified Etc/Universal is used.	Optional;
<i>recurrence_rule.until</i>	<string>	Specifies when the recurrence ends, either until or count must be specified, but not both. High precision timestamp relative to the Unix Epoch.	Optional;

## Type: roles\_obj

### JSON

```
{
  "roles": [
    integer
  ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>roles_obj</i>	<object>		Required properties: [roles];
<i>roles_obj.roles</i>	<array of <integer>>		
<i>roles_obj.roles</i> [items]	<integer>		
<i>roles_obj.&lt;prop&gt;</i>	<any>		Optional;

## Type: rpt\_tags

Container for all tag sets on a report instance.

### JSON

```

{
  "items": [
    {
      "owner": string,
      "tags": tags_obj,
      <prop>: any
    }
  ]
}

```

Property Name	Type	Description	Notes
<i>rpt_tags</i>	<object>	Container for all tag sets on a report instance.	Required properties: [items];
<i>rpt_tags.items</i>	<array of <object>>	Array of report instance tag sets.	
<i>rpt_tags.items[items]</i>	<object>	A single set of report tags.	Required properties: [owner, tags];
<i>rpt_tags.items[items].owner</i>	<string>	Owner of the tag set.	
<i>rpt_tags.items[items].tags</i>	<tags_obj>	Container for a set of report tags.	
<i>rpt_tags.items[items].&lt;prop&gt;</i>	<any>		Optional;

## Type: run\_message

Runtime status message for a data definition.

JSON

```

{
  "details": {
    <prop>: string
  },
  "id": string,
  "module_id": string,
  "nested": run_message,
  "text": string,
  <prop>: any
}

```

Property Name	Type	Description	Notes
<i>run_message</i>	<object>	Runtime status message for a data definition.	
<i>run_message.details</i>	<object>	Additional message details.	Optional;
<i>run_message.details.&lt;prop&gt;</i>	<string>		Optional;
<i>run_message.id</i>	<string>	Machine-parsable message or error code.	Optional;
<i>run_message.module_id</i>	<string>	The system module that generated the message.	Optional;
<i>run_message.nested</i>	<run_message>	Runtime status message for a data definition.	
<i>run_message.text</i>	<string>	Message text.	Optional;
<i>run_message.&lt;prop&gt;</i>	<any>		Optional;

## Type: run\_messages

Array of runtime status messages for a data definition.

JSON

```

[ run_message ]

```

Property Name	Type	Description	Notes
<i>run_messages</i>	<array of <run_message>>	Array of runtime status messages for a data definition.	
<i>run_messages[items]</i>	<run_message>	Runtime status message for a data definition.	

## Type: schd\_fhp\_obj

A single pair of report schedule and business hour profile.

JSON

```
{
  "fh_profile_id": integer,
  "schedule_id": integer,
  "schedule_name": string,
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>sched_fhp_obj</i>	<object>	A single pair of report schedule and business hour profile.	Required properties: [schedule_id, fh_profile_id];
<i>sched_fhp_obj.fh_profile_id</i>	<integer>	Business Hour Profile ID	Minimum 1;
<i>sched_fhp_obj.schedule_id</i>	<integer>		Read-only;
<i>sched_fhp_obj.schedule_name</i>	<string>		Optional;
<i>sched_fhp_obj.&lt;prop&gt;</i>	<any>		Optional;

## Type: schedule\_ids

Array of report schedule IDs.

JSON

```
[
  integer
]
```

Property Name	Type	Description	Notes
<i>schedule_ids</i>	<array of <integer>>	Array of report schedule IDs.	
<i>schedule_ids[items]</i>	<integer>	Report schedule ID.	

## Type: tags\_obj

Container for a set of report tags.

JSON

```
{
  "items": [
    string
  ],
  <prop>: any
}
```

Property Name	Type	Description	Notes
<i>tags_obj</i>	<object>	Container for a set of report tags.	
<i>tags_obj.items</i>	<array of <string>>	Array of report tags.	Optional;
<i>tags_obj.items[items]</i>	<string>	Report tag.	
<i>tags_obj.&lt;prop&gt;</i>	<any>		Optional;

## Type: template\_ids

Array of report template IDs

JSON

```
[
  integer
]
```

Property Name	Type	Description	Notes
<i>template_ids</i>	<array of <integer>>	Array of report template IDs	



<i>template_ids</i> [items]	<integer>	Report template ID	
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## Type: time\_pairs

Array of time range pairs.

### JSON

```
[
  {
    "end": string,
    "start": string
  }
]
```

Property Name	Type	Description	Notes
<i>time_pairs</i>	<array of <object>>	Array of time range pairs.	
<i>time_pairs</i> [items]	<object>	A time range pair, consisting of a start and end time.	Required properties: [start, end];
<i>time_pairs</i> [items].end	<string>	The ending time. This is a high-precision time value in Unix Epoch format.	
<i>time_pairs</i> [items].start	<string>	The start time. This is a high-precision time value in Unix Epoch format.	

## Type: ts\_statistical\_results

Array of statistical result rows.

### JSON

```
[
  {
    "group_by": data_row,
    "metric": string,
    "value": string
  }
]
```

Property Name	Type	Description	Notes
<i>ts_statistical_results</i>	<array of <object>>	Array of statistical result rows.	
<i>ts_statistical_results</i> [items]	<object>	One result from a statistical or compatibility function	Required properties: [value, metric, group_by];
<i>ts_statistical_results</i> [items].group_by	<data_row>	Row of results data within a data definition.	
<i>ts_statistical_results</i> [items].metric	<string>	The metric column ID	
<i>ts_statistical_results</i> [items].value	<string>	The result value	