

RUCKUS

SmartCell Insight API User Guide, 5.5.6

Supporting SmartCell Insight 5.5.6

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Contents

- About This Guide..... 5**
 - Document Conventions..... 5
 - Related Documentation..... 6
 - Documentation Feedback..... 6

- Overview..... 7**
 - Report Types..... 7
 - Common Tasks..... 8
 - Using the API Dialog Box..... 9

- Using SCI API Explorer..... 11**
 - Generating the Access Token..... 13
 - Querying to Obtain Report IDs..... 15
 - Querying to Obtain Section IDs of a Specific Report..... 18
 - Querying the Data Endpoint..... 20
 - Logging in to API Explorer Programmatically..... 23

About This Guide

- Document Conventions..... 5
- Related Documentation..... 6
- Documentation Feedback..... 6

This *SmartCell Insight API User Guide* provides instructions about how the Ruckus Wireless™ SmartCell Insight (SCI) APIs work to access the various functionalities provided by the core SCI engine.

This guide is written for service operators and system administrators who are responsible for managing, configuring, and troubleshooting Wi-Fi networks. It assumes basic working knowledge of local area networks, wireless networking, and wireless devices.

NOTE

Refer to the release notes shipped with your product to be aware of certain challenges when upgrading to this release.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the Ruckus Wireless Support Web site at <https://support.ruckuswireless.com/contact-us>.

Document Conventions

[Document Conventions](#) and [Document Conventions](#) list the text and notice conventions that are used throughout this guide.

TABLE 1 Text conventions

Convention	Description	Example
message phrase	Represents messages displayed in response to a command or a status	[Device Name] >
user input	Represents information that you enter	[Device Name] > set ipaddr 10.0.0.12
user interface controls	Keyboard keys, software buttons, and field names	Click Create New
Start > All Programs	Represents a series of commands, or menus and submenus	Select Start > All Programs
ctrl+V	Represents keyboard keys pressed in combination	Press ctrl+V to paste the text from the clipboard.
screen or page names		Click Advanced Settings . The Advanced Settings page appears.
command name	Represents CLI commands	
parameter name	Represents a parameter in a CLI command or UI feature	
variable name	Represents variable data	{ZoneDirectorID}
filepath	Represents file names or URI strings	http://ruckuswireless.com

TABLE 2 Notice conventions

Notice type	Description
NOTE	Information that describes important features or instructions
 CAUTION	Information that alerts you to potential loss of data or potential damage to an application, system, or device

About This Guide

Related Documentation

TABLE 2 Notice conventions (continued)

Notice type	Description
 WARNING	Information that alerts you to potential personal injury

Related Documentation

For a complete list of documents that accompany this release, refer to the Release Notes.

Documentation Feedback

Ruckus Wireless is interested in improving its documentation and welcomes your comments and suggestions.

You can email your comments to Ruckus Wireless at: docs@ruckuswireless.com

When contacting us, please include the following information:

- Document title
- Document part number (on the cover page)
- Page number (if appropriate)

Overview

- [Report Types](#)..... 7
- [Common Tasks](#)..... 8
- [Using the API Dialog Box](#)..... 9

SmartCell Insight (SCI) is a Big Data analytics and reporting engine that provides deep visibility into the performance and operational statistics of your Ruckus Wireless WiFi infrastructure.

SmartCell Insight (SCI) is designed to collect data from Ruckus network equipment, analyze that data, and then present it using a wide variety of standard and custom reports. SCI provides visibility, analytics and reports about network transmission statistics, equipment status and user traffic. It also provides details about the devices and applications that are used on the network, so that decision-makers can make better informed decisions about what types of devices and content their customers are using and will be using more of in the future.

SCI provides a rich set of APIs to access the various functionality provided by the core SCI engine.

This manual includes the following information:

- [Report Types](#) on page 7
- [Common Tasks](#) on page 8
- [Using the API Dialog Box](#) on page 9
- [Using SCI API Explorer](#) on page 11:
 - [Generating the Access Token](#) on page 13
 - [Querying to Obtain Report IDs](#) on page 15
 - [Querying to Obtain Section IDs of a Specific Report](#) on page 18
 - [Querying the Data Endpoint](#) on page 20
 - [Logging in to API Explorer Programmatically](#) on page 23

NOTE

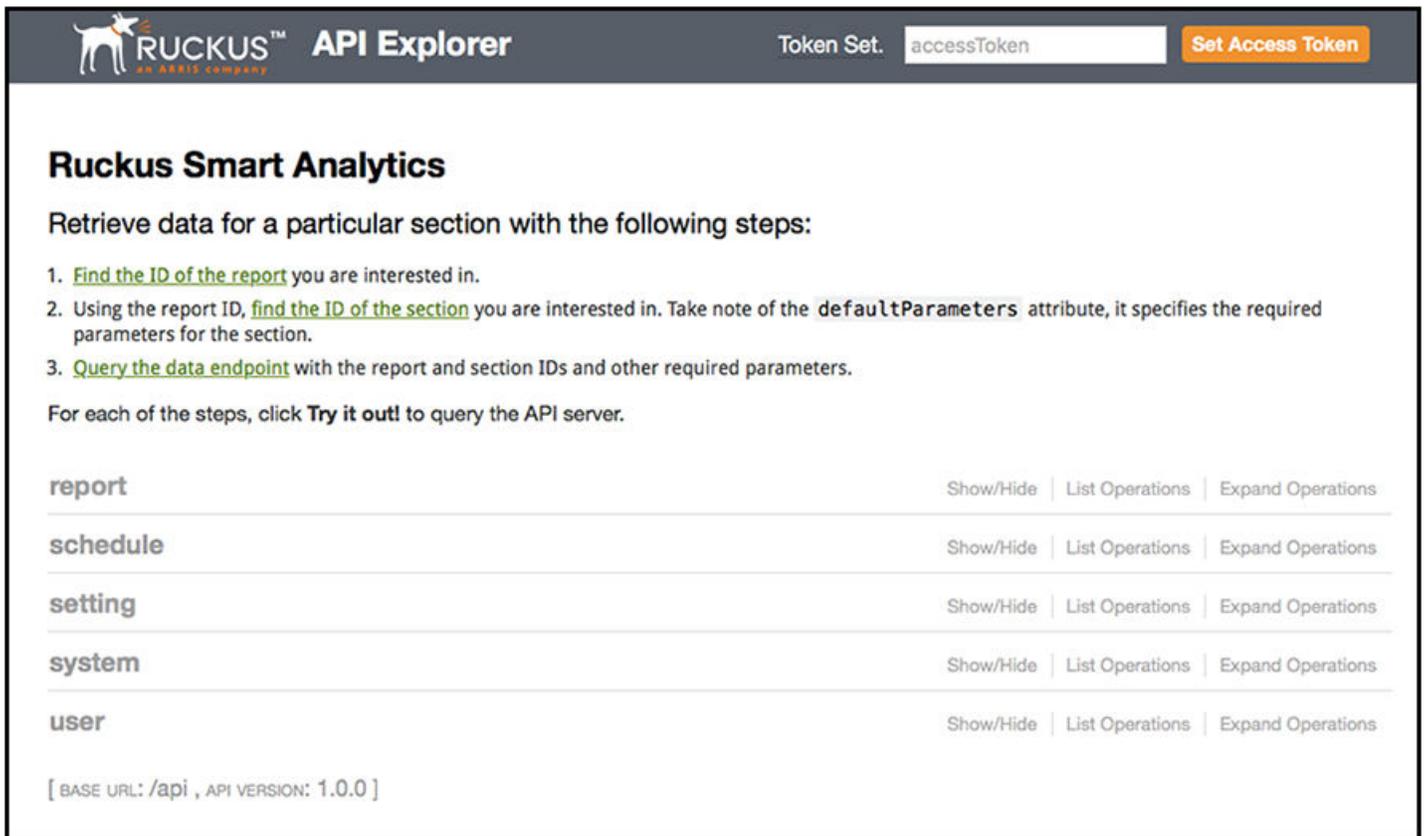
Refer to the "Ruckus Smart Analytics" section of this manual for information about how to use each of the APIs.

Report Types

This section lists and describes the report types available in SCI.

When you first enter the SCI API Explorer by entering `https://<your SCI IP address>/explorer` in your web browser, the following screen is displayed:

FIGURE 1 Ruckus Smart Analytics Screen when Entering API Explorer



Report types available in SCI are described in the following table:

Report Type	Description
Report	Report type is for various reports available in the application such as Network, WLAN, and Clients.
Schedule	This is to schedule automatic report generation and delivery. You can also specify occurrences for a particular schedule. (Refer to the SCI user guide for details).
Setting	This report type is for system level settings including SMTP settings.
System	This report type is based on all the controllers that report to the SCI as data sources.
User	The user usage report returns activities pertaining to SCI across the user's accounts.

Common Tasks

SCI's API allows you to build your custom specified reports, based on the available parameters. Each of these parameters has the following common tasks.

- Show / Hide: This toggle command shows or hides the rows dynamically in a table.
- List Operations: This command displays the list of HTTP verbs such as GET, PUT, POST, HEAD or DELETE row dynamically in a table.

- Expand Operations: This command expands the API dialog box for each listed operation. Use List Operations to contract the view.

FIGURE 2 Common tasks

report	Show/Hide	List Operations	Expand Operations
schedule	Show/Hide	List Operations	Expand Operations
setting	Show/Hide	List Operations	Expand Operations
system	Show/Hide	List Operations	Expand Operations
user	Show/Hide	List Operations	Expand Operations

Using the API Dialog Box

Use the API dialog box to view and modify the messages to generate your API reports.

On clicking each of the parameters and the resource URL the API dialog box is displayed.

FIGURE 3 API Dialog Box

occurrence Show/Hide | List Operations | Expand Operations

GET /occurrences Find all instances of the model matched by filter from the data source.

Response Class (Status 200)

Model | Model Schema

```
[
  {
    "timestamp": "2016-07-26",
    "status": 0,
    "id": 0,
    "scheduleId": 0
  }
]
```

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
filter	<input type="text"/>	Filter defining fields, where, include, order, offset, and limit	query	string

Try it out!

TABLE 3 API Dialog Box

Name	Description
Response Class	The Response interface of the API represents the response to a request.
Response Content Type	Content-type: application/json; designates the content to be in JSON format. This is the default type.

Overview

Using the API Dialog Box

TABLE 3 API Dialog Box (continued)

Name	Description
Parameters	
Parameter	Use the filter parameter to supply a dimension you want to filter on, followed by the filter expression.
Value	The Parameter Value contains the value to be included in the request.
Description	Auto displays the parameter description
Parameter Type	Lists the API parameter types that you can use in the path or query parameters for your backend API methods, and the types you can use as method return types or request body types.
Data Type	Lists the data types used in API parameters and notification message fields.
Try it out	Click on this icon to view the response body based on the parameters set.
Curl	Curl is a command line tool and library for transferring data with URL syntax. Use the curl command to simulate HTTP verbs such as HEAD, GET, POST, PUT and DELETE request calls to the API.
Request URL	Contains the URL of the response.
Response Body	The response interface represents the response to a request.
Response Code	Contains the status code of the response. For example, 200 for a success.
Response Header	Contains the headers object associated with the response.

Using SCI API Explorer

- [Generating the Access Token](#)..... 13
- [Querying to Obtain Report IDs](#)..... 15
- [Querying to Obtain Section IDs of a Specific Report](#)..... 18
- [Querying the Data Endpoint](#)..... 20
- [Logging in to API Explorer Programmatically](#)..... 23

After you log in to the SCI User Interface, you can access the SCI API Explorer to generate reports by using a variety of APIs that SCI supports.

This section provides steps on how to enter the SCI API Explorer to log in, after which the following tasks are shown:

- [Generating the Access Token](#) on page 13
 - [Querying to Obtain Report IDs](#) on page 15
 - [Querying to Obtain Section IDs of a Specific Report](#) on page 18
 - [Querying the Data Endpoint](#) on page 20
 - [Logging in to API Explorer Programmatically](#) on page 23
1. Enter `https://<your SCI IP address>/explorer` in your web browser.

2. Log in using the following default credentials:

Username: admin

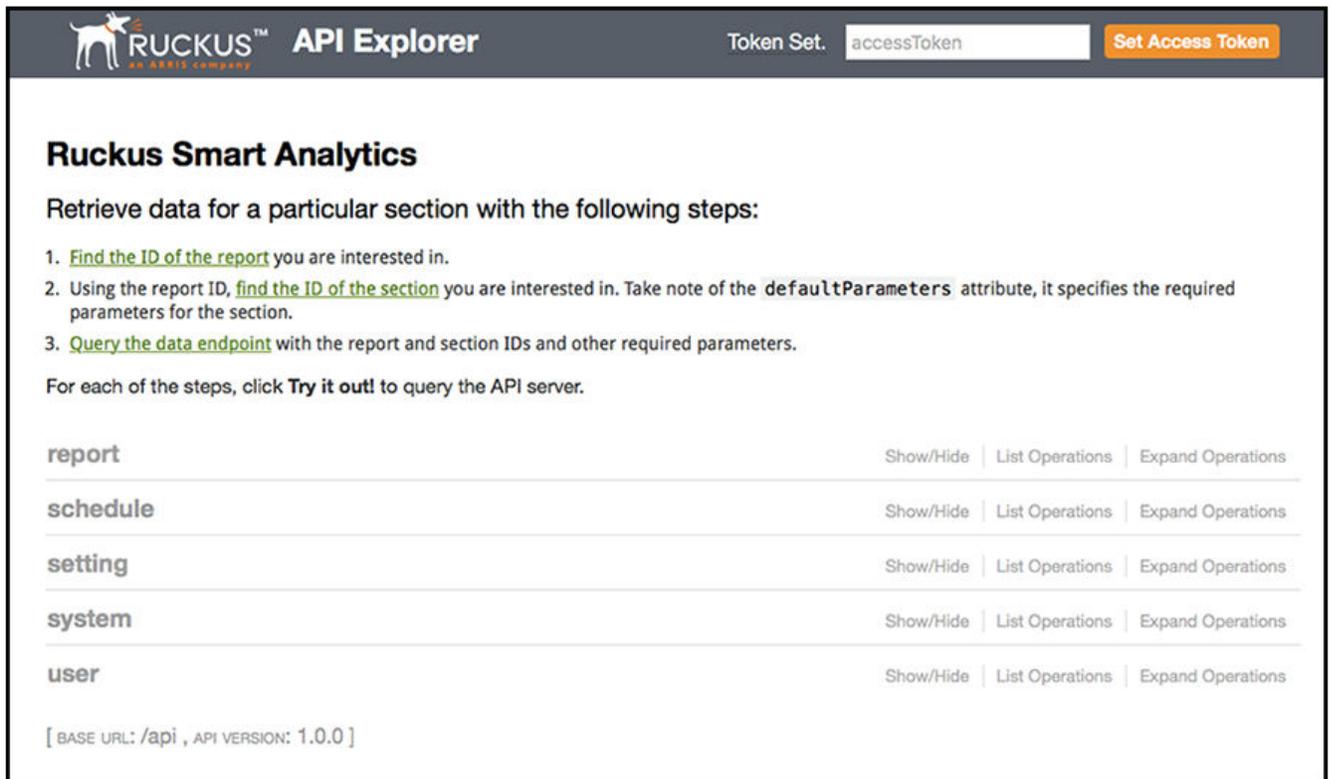
Password: password

NOTE

If you have changed the default password, please use the new password accordingly.

The following screen appears:

FIGURE 4 Ruckus Smart Analytics Screen when Entering API Explorer



This screen exposes all the APIs from the SCI core engine.

Generating the Access Token

Before you can access all the APIs, you need to generate an access token.

Follow the steps below to generate the API access token:

1. Click **User** on the screen shown above.

The screen expands as follows:

FIGURE 5 Clicking User

USER			Show/Hide	List Operations	Expand Operations
GET	/users	Find all instances of the model matched by filter from the data source.			
PUT	/users	Update an existing model instance or insert a new one into the data source.			
POST	/users	Create a new instance of the model and persist it into the data source.			
GET	/users/{id}	Find a model instance by id from the data source.			
HEAD	/users/{id}	Check whether a model instance exists in the data source.			
PUT	/users/{id}	Update attributes for a model instance and persist it into the data source.			
DELETE	/users/{id}	Delete a model instance by id from the data source.			
GET	/users/{id}/accessTokens	Queries accessTokens of user.			
POST	/users/{id}/accessTokens	Creates a new instance in accessTokens of this model.			
DELETE	/users/{id}/accessTokens	Deletes all accessTokens of this model.			
GET	/users/{id}/accessTokens/{fk}	Find a related item by id for accessTokens.			
PUT	/users/{id}/accessTokens/{fk}	Update a related item by id for accessTokens.			
DELETE	/users/{id}/accessTokens/{fk}	Delete a related item by id for accessTokens.			
GET	/users/{id}/accessTokens/count	Counts accessTokens of user.			
GET	/users/{id}/exists	Check whether a model instance exists in the data source.			
GET	/users/change-stream	Create a change stream.			
POST	/users/change-stream	Create a change stream.			
GET	/users/confirm	Confirm a user registration with email verification token.			
GET	/users/count	Count instances of the model matched by where from the data source.			
GET	/users/findOne	Find first instance of the model matched by filter from the data source.			
POST	/users/login	Login a user with username/email and password.			

2. Click on POST /users/login on the screen shown above.

Using SCI API Explorer

Generating the Access Token

- In the **credentials** section, enter the user credentials you used to log into the user interface, which, by default, are:
Username: admin
Password: password
Input the string in the format `{"username":"admin", "password":"password"}` as shown below:

FIGURE 6 Credentials

The screenshot shows the 'Parameters' section of the SCI API Explorer. The 'Response Content Type' is set to 'application/json'. The 'credentials' parameter is highlighted with a blue box and contains the JSON string `{"username":"admin", "password":"admin"}`. Below it, the 'Parameter content type' is also set to 'application/json'. The 'include' parameter is empty. The 'Description' for 'include' reads: 'Related objects to include in the response. See the description of return value for more details.'

- Click the **Try it out!** tab in the Credentials section.

The access code you need is generated in the Response body of the curl script, as displayed below:

FIGURE 7 Access Token

The screenshot shows the 'Curl' section with the command: `curl -X POST --header "Content-Type: application/json" --header "Accept: application/json" -d "{\"username\":\"rsa\", \"password\":\"password\"}"`. The 'Request URL' is `https://rsa-staging.ruckuslbs.com/api/users/login?access_token=Jn4mgkNl8dIEFAAR4nvtwGFJ6KuCedGTxZ5uZFnSS0ZdLFJ3gApGbWj3`. The 'Response Body' is a JSON object: `{ \"id\": \"tn33XDf40CsAiwmP0hXUu3I1KNUTWtUVlf8MJ9aUwmqoIZTz1mahD9GNvLD0RbTb\", \"ttl\": 1209600, \"created\": \"2016-07-21T02:39:03.265Z\", \"userId\": 1 }`. The 'id' value is highlighted with a red box.

- Copy this access token (*without the quotation marks*) and paste it in the **Set Access Token** field displayed at the top of the SCI user interface.

- Click **Set Access Token**.

If successful, the "Token Set" string displays to the left of the space where you pasted in the token:

FIGURE 8 Token Set



NOTE

Now you can access all the API reports in the system. You might not get the whole report in the Response Body if it is a large amount of data. You can access the reports by using:

- A Request URL. Paste this URL in a web browser to access the reports.
- A curl script to SSH on to your machine and direct those reports to a desired location.

Querying to Obtain Report IDs

Each report in the SCI user interface is associated with a unique Report ID in the API. Each report consequently contains unique section IDs for each section within a report. This will also be shown in the following examples.

Follow the steps below to determine the list of IDs for each report.

- Click **Report** on the Ruckus Smart Analytics screen.

You should then get a display that includes the following:

FIGURE 9 Display after clicking on Report

report		Show/Hide	List Operations	Expand Operations
GET	/reports			Find all instances of the model matched by filter from the data source.
PUT	/reports			Update an existing model instance or insert a new one into the data source.
POST	/reports			Create a new instance of the model and persist it into the data source.
GET	/reports/{id}			Find a model instance by id from the data source.
HEAD	/reports/{id}			Check whether a model instance exists in the data source.
PUT	/reports/{id}			Update attributes for a model instance and persist it into the data source.
DELETE	/reports/{id}			Delete a model instance by id from the data source.
POST	/reports/{id}/download/{format}			
GET	/reports/{id}/exists			Check whether a model instance exists in the data source.
GET	/reports/{id}/facet			Fetches belongsTo relation facet.
GET	/reports/{id}/facet/data			
POST	/reports/{id}/facets/apmac			

2. Click **GET/reports**.

You should then get a display such as the following:

FIGURE 10 GET/reports Response

GET /reports Find all instances of the model matched by filter from

Response Class (Status 200)

Model Model Schema

```
[
  {
    "title": "string",
    "urlSegmentName": "string",
    "filterDataSource": "string",
    "excludedFilters": [
      {}
    ],
    "layout": [
      {}
    ]
  }
]
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
filter	<input type="text"/>	Filter defining fields, where, include, order, offset, and limit	query	string

3. Click Try it out!

Check the output in the Response Body. The following is a portion of that output:

```
[
  {
    "title": "Clients Report",
    "urlSegmentName": "clients",
    "filterDataSource": "binnedSessions",
    "excludedFilters": null,
    "layout": [
      {
        "desiredWidth": "full",
        "layout": [
          {
            "section": 12,
            "desiredWidth": "half"
          },
          {
            "section": 13,
            "desiredWidth": "half"
          }
        ]
      },
      {
        "desiredWidth": "full",
        "section": 14
      },
      {
        "desiredWidth": "full",
        "section": 15
      },
      {
        "desiredWidth": "full",
        "section": 16
      }
    ],
    "headers": [
      "reportFilter",
      "periodButton",
      "savedFilters",
      "downloadButton"
    ],
    "routeParameters": null,
    "id": 1,
    "facetId": null
  },
]
```

The code block shown above is for the "Clients Report," as you can see by the title in the first line of the code block. The Report ID is 1, which you can see near the end of the code block. The ID is always shown at the *end* of the corresponding report. Similarly, you can scroll through the output in the Response Body to obtain all the report IDs. For example, you will find that "Network Report" is ID 2.

Querying to Obtain Section IDs of a Specific Report

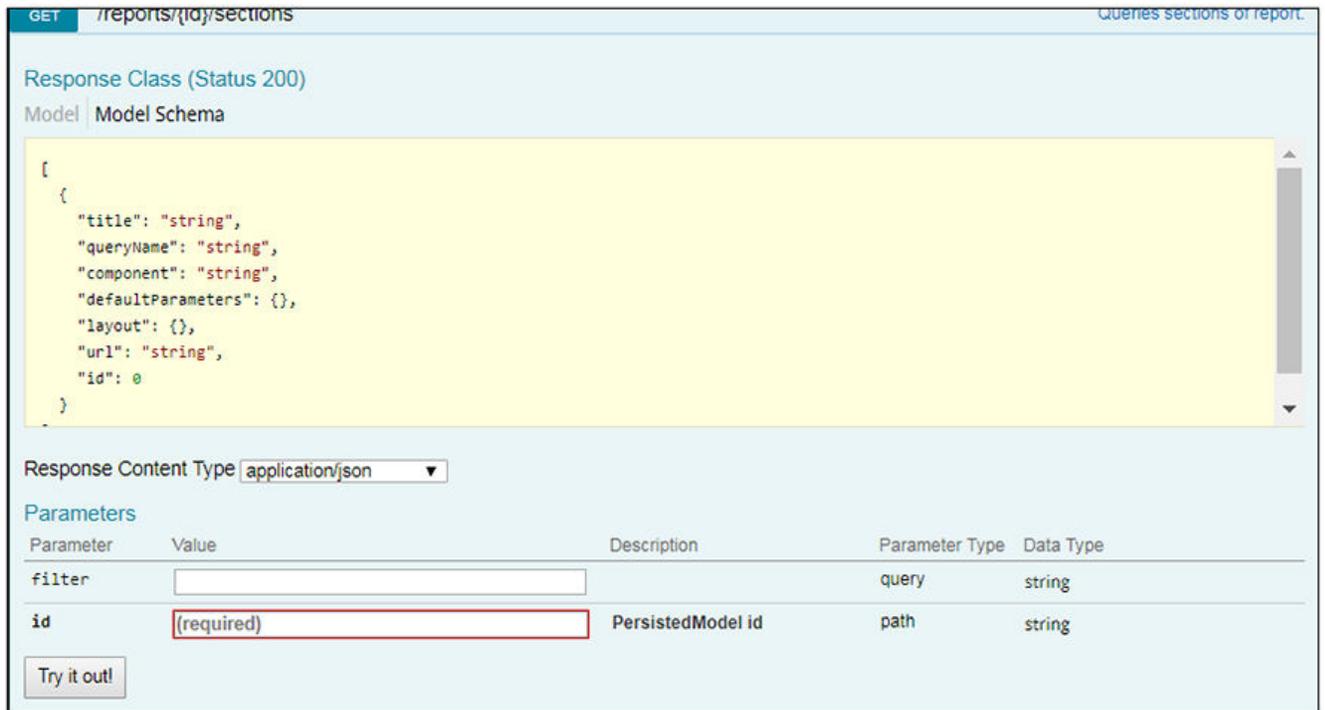
Each report in SCI contains multiple sections. Once you know the report IDs, you can obtain the names of each section within a report and their corresponding, unique section IDs.

Follow these steps to obtain the section titles and corresponding section IDs for all sections in a given report.

1. Once you know the ID of the report you want, click **GET/reports/{id}/sections**.

The following is displayed.

FIGURE 11 Display from clicking GET/reports/{id}/sections



2. Enter the Report ID in the "id" field. For example, for the Clients Report, enter an ID of 1.

3. Click Try it out!

A portion of the Response Body output is shown below:

```
[
  {
    "title": "Overview",
    "queryName": "overview",
    "component": "ReportOverview",
    "defaultParameters": {
      "granularity": "all"
    },
    "layout": {
      "width": "half",
      "widgetTheme": "blue"
    },
    "url": null,
    "id": 12
  },
  {
    "title": "Top 10 Unique Clients by Traffic",
    "queryName": "topChart",
    "component": "BarChart",
    "defaultParameters": {
      "granularity": "all",
      "metric": "traffic"
    },
    "layout": {
      "width": "half",
      "headers": [
        {
          "component": "SelectFilter",
          "name": "metric",
          "options": {
            "traffic": "User Traffic",
            "rxBytes": "Rx User",
            "txBytes": "Tx User"
          }
        }
      ]
    },
    "format": "bytesFormat",
    "colors": [
      "#5BA1E0",
      "#5BA1E0",
      "#5BA1E0",
      "#76CEF5",
      "#76CEF5",
      "#76CEF5",
      "#D9E6F5",
      "#D9E6F5",
      "#D9E6F5",
      "#D9E6F5"
    ],
    "drillDownRoute": "/report/client/${x}"
  },
  {
    "url": null,
    "id": 13
  },
],
```

The code block shown above is for the sections of the "Clients Report." The first segment of the Response Body above shows the title of "Overview." If you scroll down to the end of that segment, you see that the ID for that section is 12. The ID of a section is always shown at the *end* of the corresponding segment for the section. The ID for the next section shown above, "Top 10 Unique Clients by Traffic", is 13. You can scroll through the output in the Response Body to obtain all the section IDs for the report you have identified.

Querying the Data Endpoint

Once you know the Report ID and the Section ID you are interested in, you can query for specific data.

Follow these steps to query for specific data based on the Report ID and Section IDs.

1. Click **POST/reports/{id}/sections/{sectionId}/data**.

The following parameters are displayed.

FIGURE 12 Display from clicking POST/reports/{id}/sections/{sectionId}/data

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
id	<input type="text" value="(required)"/>	Report Id	path	string
sectionId	<input type="text" value="(required)"/>	Section Id	path	string
start	<input type="text" value="(required)"/>	2016-04-06T16:04:46+00:00	formData	string
end	<input type="text" value="(required)"/>	2016-04-07T16:04:46+00:00	formData	string
granularity	<input type="text"/>	fifteen_minute, thirty_minute, hour, day	formData	string
metric	<input type="text"/>	Specifying the metric to sort	formData	string
filter	<input type="text"/>	Body object for aggregation, see implementation notes for an example	formData	string
limit	<input type="text"/>	limit number of records, etc, 10	formData	double
pagingIdentifiers	<input type="text"/>	Query results will return a pagingIdentifiers JSON object that can be reused in the next query for pagination.	formData	string

2. Fill out the required fields, using the Report ID and Section ID that you have already determined from the previous queries described above.

To determine if the metric parameter is required, look at the Response Body from for the section you are interested in, and check if "metric" is found under "defaultParameters". If it is, enter one of the values listed under "options." The figure below illustrates this scenario.

FIGURE 13 Response Body that indicates a Metric is required

```
Response Body
{
  "title": "Top 10 Unique Clients by Traffic",
  "queryName": "clients/topChart",
  "component": "BarChart",
  "defaultParameters": {
    "granularity": "all",
    "metric": "traffic"
  },
  "layout": {
    "width": "half",
    "headers": [
      {
        "component": "SelectFilter",
        "name": "metric",
        "options": {
          "traffic": "Rx + Tx",
          "rxBytes": "Rx",
          "txBytes": "Tx"
        }
      }
    ]
  },
  "formatMetadata": {
```

- You can also use the optional parameters. An example would be filtering on an AP MAC address of: 00:AA:BB:CC:44:D0. To do this, you would enter this exact string shown below into the filter field in the screen above: {"type":"or", "fields":{"type":"selector", "dimension":"apMac", "value":"00:AA:BB:CC:44:D0"}}

If you want to generate a report using this filter, the Report ID of 1 (Clients Report), Section ID 12 (Overview section of Clients Report), and a time interval of your choice, the parameters once you have entered the information would appear as follows:

FIGURE 14 Parameter Example for Querying Data on a Specific Section ID

Parameter	Value	Description	Parameter Type	Data Type
id	1	Report Id	path	string
sectionId	12	Section Id	path	string
start	2017-09-18T16:04:46+00:00	2016-04-06T16:04:46+00:00	formData	string
end	2017-09-19T16:04:46+00:00	2016-04-07T16:04:46+00:00	formData	string
granularity		fifteen_minute, thirty_minute, hour, day	formData	string
metric		Specifying the metric to sort	formData	string
filter	{"type":"or", "fields":{"type":"selector", "dimension":"apMac"	Body object for aggregation, see Implementation notes for an example	formData	string
limit		limit number of records, etc, 10	formData	double
pagingIdentifiers		Query results will return a pagingIdentifiers JSON object that can be reused in the next query for pagination.	formData	string

Try it out! [Hide Response](#)

Curl

```
curl -X POST --header "Content-Type: application/x-www-form-urlencoded" --header "Accept: application/json" -d "start=2
```

Other values you can use for dimensions in the "filter" string are shown below:

TABLE 4 Dimensions to use in filter string parameter

Dimension portion of filter string	Value to use for Dimension
System Name	"system"
Controller MAC	"ctrlMac"
Controller Name	"ctrlName"
Controller Serial	"ctrlSerial"
Zone	"zoneName"
AP Group	"apGroup"
AP MAC	"apMAC"
AP Name	"apName"
AP Serial	"apSerial"
SSID	"ssid"
Radio	"radio"

TABLE 4 Dimensions to use in filter string parameter (continued)

Dimension portion of filter string	Value to use for Dimension
Session Type	"sessionType"

4. **Click Try it out!**

The data output is displayed in the Response Body.

Logging in to API Explorer Programmatically

You can log in using the curl command for POST /users/login. Ensure you use the -k option in the curl command.

The response to the call will contain a token that you can use in subsequent calls.

In subsequent calls, you can pass this token as a header "Authorization:<token>".

The following example shows how to query section 28 for report ID 7 programmatically using the curl command.

```
curl -k -X POST --header "Content-Type: application/x-www-form-urlencoded" --header "Authorization: <your-auth-token>" --header "Accept: application/json" -d "start=2016-12-13T20%3A30%3A46%2B00%3A00&end=2016-12-13T20%3A45%3A46%2B00%3A00" "https://<your-SCI-IP>/api/reports/7/sections/28/data"
```



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