

SEMO Website

SEMO Website Report API

TABLE OF CONTENTS

1 Document Control Details	3
2 Introduction	3
3 Using the SEMO Website Report API	4
3.1 Background	4
3.2 Authentication	4
3.3 Invocation of the Web Service	4
3.4 SEMO Website Report API Query Parameters	5
3.5 Using the SEMO Website Report API	7
4 Appendix SEMO Website Report API Request Examples	8
4.1 Example 1	8
4.2 Example 2	8

1 Document Control Details

Revision History

Version	Date	Contributor	Summary of Changes / Reason
1.0	19 th July 2018	SEMO	Version 1.0 public release
1.1	02 nd August 2018	SEMO	Changes to section 3.4 - Query Parameters & 3.5 Web Service Response
1.2	28 th September 2018	SEMO	Updated with production URL
1.3	11 th March 2019	SEMO	Updated examples section 4

2 Introduction

This document describes the SEMO Website Report API and how the general public can utilise it for accessing Static Reports from the SEMO Website.

All reports available for download from the SEMO Website Report API are specified in the I-SEM Data Publication Guide.

3 Using the SEMO Website Report API

This section describes how the general public can use the SEMO Website Report API.

3.1 Background

The SEMO Website Report API is written as a web service and returns data in JSON format. The source data are provided to the website, and are subsequently offered via this API, in their native format, XML and CSV.

3.2 Authentication

The service doesn't require any authentication.

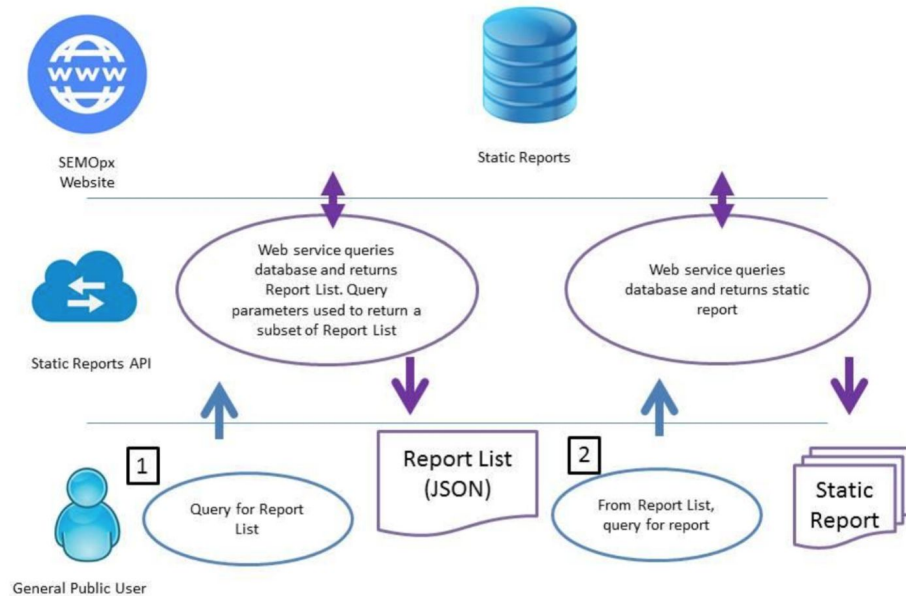
3.3 Invocation of the Web Service

The invocation of the SEMO Website Report API follows a two-step approach.

Step	Description	Call
1	Query Report List	http://reports.sem-o.com/api/v1/documents/static-reports
1*	Query Parameters	The web services call described in Step 1 can be modified to include query parameters used to filter for a subset of Static Reports to be returned in the Report List.
2	Query for an individual report	http://reports.semo.com/documents/[ResourceName] where ResourceName is the value returned in the Report List from the previous step.

The diagram below provides a high level view of this two-step approach.

SEMO Public Website API: Overview of Invoking Web Services to Retrieve Static Reports



3.4 SEMO Website Report API Query Parameters

The following table describes the possible query parameters that can be used to return a collection of Reports from the Report List.

Parameter	Description
DPuG_ID	The DPuG_ID of the report
ReportName	The report name
ResourceName	The instance filename of a report
Group	The group to which the reports have been assigned to.

Parameter	Description
Date	<p>Specifies the from/to date which is used to restrict the returned data. The value must be in YYYY-MM-DD format.</p> <p>In values of these parameters you can use prefixes (less than, greater than, less than or equal, etc.):</p> <ul style="list-style-type: none"> < means date before > means date after <= means date before or equal to >= means date after or equal to <p>Example 1: Date=>2018-02-08<=2018-04-12 <i>That means that the output of the request will include the information about reports with Date between 2018-02-08 and 2018-04-12(included).</i></p> <p>Example 2: Date=2018-02-08 <i>The result will include the information about reports at this date.</i></p>
PublishTime	The same properties as the, “Date” parameter will apply to the, “PublishTime” parameter.
page	The page number from the query result
page_size	The size of the page in output
sort_by	The field to be used to order by: DPuG_ID, ReportName, ResourceName, Date, PublishTime
order_by	Accepted values: ASC, DESC

All arguments are optional and there is no order dependency.

3.5 Using the SEMO Website Report API

The web service returns data in JSON format. The Report List is organised into two sections, the header and the data items.

#	Section Name	Description	Fields
1	Header	The initial section of the return message describing the volume of Reports available for download.	<p>pageSize : the maximum number of items for any page within the Report List Collection</p> <p>currentPage : the current page within the return message</p> <p>totalItems : the total number of individual reports available for download</p> <p>totalPages : the total number of Pages (each containing a number of items) from the Report List query</p>
2	Data Item	The section of the return message that describes the individual reports available for download.	<p>_id : a unique system-generated identifier for the Report (not used for common report queries)</p> <p>DPuG_ID : the report identifier from the I-SEM Data Publication Guide</p> <p>PublishTime : Date & Time the report was published to the website</p> <p>ReportName : this is the common name for the report.</p> <p>Group: this is the category each individual report belongs to: Group Categories defined below.</p> <ul style="list-style-type: none"> ● Capacity Qualification ● Capacity Auctions

			<ul style="list-style-type: none"> ● Forecast Data ● Inputs, Commercial and Technical ● Offer Data ● Registration ● Settlement Data <p>Dynamic : Indicates using values 'true' or 'false' if the report is a Dynamic Report or just a static report.</p> <p>ResourceName : this is the filename of the instance of this report.</p> <p>Date : the applicable date for the report. For SEMO Balancing Market reports this is the Trade Date. For SEMO Settlement reports this is the Settlement Date.</p>
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4 Appendix SEMO Website Report API Request Examples

4.1 Example 1

The following URL uses the API to return a set of the latest 50 documents matching DPuG reference BM-026

http://reports.sem-o.com/api/v1/documents/static-reports?DPuG_ID=BM026&page_size=50

4.2 Example 2

This URL queries the API by using these arguments:

DPuG_ID: EA-002

ReportName: ETS Bid File

ResourceName: BidFile_SEM-IDA1_PWR-SEM-GB

Group: Market Data

Date: >=2019-02-01<=2019-02-28

page: 1

page_size: 10

sort_by: PublishTime

order_by: ASC

https://reports.sem-o.com/api/v1/documents/static-reports?DPuG_ID=EA-002&ReportName=ETS%20Bid%20File&ResourceName=BidFile_SEM-IDA1_PWR-SEM-GB&Group=Market%20Data&Date=%3E=2019-02-01%3C=2019-02-28&page=1&page_size=10&sort_by=PublishTime&order_by=ASC

Following a screenshot of a POSTMAN request setup with the same parameters of Example 2. Please notice that in some cases not all the parameters are required in order to query the same subset of data; in this particular example we could leave out the DPuG_ID, ReportName and Group arguments and still get the same result because of the most restricting ResourceName argument.

SEMO Website SEMO Website Report API

GET
{{API_BASE_URL}}/documents/static-reports?DPuG_ID=EA-002&ReportName=ETS Bid File&ResourceName=Bic...
Send

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	DPuG_ID	EA-002			
<input checked="" type="checkbox"/>	ReportName	ETS Bid File	Partial or full name of the report		
<input checked="" type="checkbox"/>	ResourceName	BidFile_SEM-IDA1_PWR-SEM-GB	Partial or full resource name (including the file extension)		
<input checked="" type="checkbox"/>	Group	Market Data	Full group name		
<input checked="" type="checkbox"/>	Date	>=2019-02-01<=2019-02-28	Example of date range filter argument		
<input type="checkbox"/>	Date	>=2019-02-01	Example of date range filter after and including 2019-02-01 date		
<input type="checkbox"/>	Date	>2019-02-01	Example of date range filter after and excluding 2019-02-01 date		
<input type="checkbox"/>	Date	2019-02-01	Example of date filter of a specific date		
<input checked="" type="checkbox"/>	page	1	Page to be requested		
<input checked="" type="checkbox"/>	page_size	10	Maximum number of items per page		
<input checked="" type="checkbox"/>	sort_by	PublishTime	The property to filter the result by		
<input checked="" type="checkbox"/>	order_by	ASC	The sorting order (accepted values: ASC, DESC)		
	Key	Value	Description		

Body
Cookies
Headers (14)
Test Results

Pretty
Raw
Preview
JSON
≡

```

1 {
2   "pagination": {
3     "pageSize": 10,
4     "currentPage": 1,
5     "totalItems": 27,
6     "totalPages": 3,
7     "sort_by": "PublishTime",
8     "order_by": "ASC"
9   },
10  "resourceBaseUri": "http://reports.semopx.com/documents",
11  "items": [
12    {
13      "_id": "5c533eab9620d9150e5ec764",
14      "DPuG_ID": "EA-002",
15      "ReportName": "ETS Bid File",
16      "Group": [
17        "Market Data"
18      ],
19      "Dynamic": false,
20      "ResourceName": "BidFile_SEM-IDA1_PWR-SEM-GB-D+1_20190131173000_20190131173822.csv",
21      "Date": "2019-02-01T17:30:00",
22      "PublishTime": "2019-02-02T01:00:04"
23    },

```