



SEMOpX Website
SEMOpX Website Report API

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TABLE OF CONTENTS

1 Document Control Details	3
2 Introduction	3
3 Using the SEMOpX Website Report API	4
3.1 Background	4
3.2 Authentication	4
3.3 Invocation of the Web Service	4
3.4 SEMOpX Website Report API Query Parameters	5
3.5 Using the SEMOpX Website Report API	7
4 Appendix SEMOpX 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	19th July 2018	SEMOpX	Version 1.0 public release
1.1	02nd August 2018	SEMOpX	Changes to section 3.4 - Query Parameters & 3.5 Web Service Response
1.2	28th September 2018	SEMOpX	Updated with production URL
1.3	11 March 2019	SEMOpX	Update section 3.4 to include PublishTime parameter. Updated examples section 4.
1.4	25 August 2022	SEMOpX	Updated links

2 Introduction

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

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

3 Using the SEMOpX Website Report API

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

3.1 Background

The SEMOpX 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

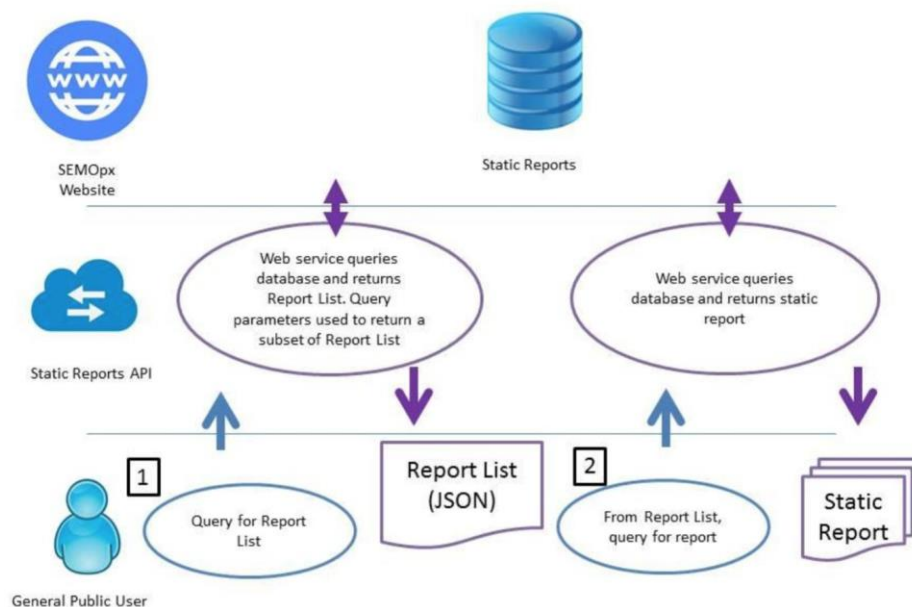
The invocation of the SEMOpX Website Report API follows a two-step approach.

Step	Description	Call
1	Query Report List	https://reports.semopx.com/api/v1/documents/static-reports?Group=Market Data
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	https://reports.semopx.com/documents/[ResourceName] Where ResourceName is the value returned in the Report List from the previous step.

SEMOpX Website SEMOpX Website Report API

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

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



3.4 SEMOpX 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. Group must equal 'Market Data'

SEMOpX Website
SEMOpX Website Report API

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.): < means date before > means date after <= means date before or equal to >= means date after or equal to</p> <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 SEMOpX 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 : All SEMOpX reports are assigned to 'Market Data' category.</p>

SEMOpX Website SEMOpX Website Report API

			<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 SEMOpX reports this is the Trade Date.</p>
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4 Appendix SEMOpX Website Report API Request Examples

4.1 Example 1

The following URL uses the API to return the latest five documents which match the Report Name 'Intraday Market Results Trade' from the Group 'Market Data'.

https://reports.semopx.com/api/v1/documents/static-reports?Group=MarketData&ReportName=Intraday%20Market%20Results%20Trade&page_size=5

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



SEMOpX Website SEMOpX Website Report API

https://reports.semopx.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 not all these 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.

SEMOpX Website

SEMOpX 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    },

```