

Regelleistung.net - Bidder API

Overview

This page describes the resources of the regelleistung.net REST API for bidding and retrieving result files.

Current version

The current version `v1` supports the product types FCR, aFRR and mFRR.

Schema

All API access is secured via HTTPS, and can be accessed from ~~`https://api-test.regelleistung.net`~~ (in preparation). All data is sent and received as JSON or XML.

All dates are returned in ISO 8601 format: `YYYY-MM-DD`.

All timestamps are returned in ISO 8601 format: `YYYY-MM-DDTHH:MM:SSZ`.

Authentication

Regelleistung.net API supports only [OAuth2](#) for authentication.

IN SHORT Token URI: `/oauth/token`

Flow: `clientCredentials`

In the context of OAuth the bidding service API is considered as a OAuth resource which may be accessed by your OAuth client, for instance a script run by an automated process.

To Access this API the following steps need to be executed:

- Register a OAuth client for the platform for this API.
- Request a valid JSON Web Token (JWT) from our OAuth Server.
- Do the HTTP request against the OAuth resource using the JWT.

Those steps are explained in detail now in the next paragraphs.

Register OAuth Client

Using the frontend at `/apps/managing-oauth-clients/` you're able to register a new client.

NOTE

- For registration you need a login with write access - so read-only bsp users are not allowed to register a client.
 - The amount of clients you can create is restricted.
-

The result of a registered client is individual authentication data which contains:

- **Client ID:** The name of the client which is allowed to access the API. It will be later used as username.
- **Client Secret:** Some kind of password that is needed to login to the API.

Keep that data save so only your scripts can authenticate against the API!

Request new JWT

Precondition: You have a valid Client ID and Client Secret.

Token URI: /oauth/token

Do a HTTP POST against the token URL to receive a new valid JWT. The HTTP POST must have the following characteristics:

- Body:
 - Type: Multipart
 - Content: name=grant_type , contentType=text/plain; charset=UTF-8 , part=client_credentials
- Basic Auth: username= , password=

As you can see your secret data is secured by using HTTP basic auth.

If your client is still allowed to access the OAuth resource, you will receive a JWT.

Access OAuth Resource

Precondition: You have a valid JWT.

Now you can do the request to a OAuth resource as the bidder API.

- URI: /bsp/bid-submission/...
- Header: Authorization
 - e.g. Authorization: Bearer
eyJhbGciOiJIUzI1NiIXVCJ9...TJVA95OrM7E20RMhrHDcEfxjoYZgeFONFh7HgQ

The OAuth resource will then check your JWT - in detail:

- The signature part of the token is verified with the public key of the resource.
- The resource ID is compared with the OAuth resource.
- The role is checked: Is it authorized to execute the desired action?

Examples

Retrieve tender lists

Tenders can be requested for any period. The time period refers to the gate closure time of the tender. In the following example, all mFRR tenders, which are allocated on 17.09.2018, are requested.

```
GET /v1/tenders?from=2018-09-17&to=2018-09-17
```

Read more about retrieve tender data in the paragraph "Documentation".

Specific tender

Each tender is referenced by a unique ID and consists of a combination of the product type, period and run number. In the following example, the mFRR tenders for the 18.09.2018, are requested.

Request

```
GET /v1/tenders/MRL_20180918_D1
```

Response

```
{
  "tenderState": "FINISHED",
  "gateClosureTime": "2018-07-30T09:30:00Z",
  "iterationNumber": 1,
  "allocationDeadline": "2018-07-30T11:00:00Z",
  "tenderId": "MRL_20180918_D1",
  "productType": "mFRR",
  "periodFrom": "2018-09-18",
  "periodTo": "2018-09-18",
  "gateOpenTime": "2018-07-30T09:10:00Z",
  "tenderType": "DAILY"
}
```

Read more about using GET tender method in the paragraph "Documentation".

Demand

The demand of a specific tender are represented by a separate resource. In the following example the demand for the MRL_20180918_D1 is queried.

Request

GET /v1/tenders/MRL_20180918_D1/demands

Response

```
{
  "controlBlockDemands": [
    {
      "controlBlock": "10Y1001A1001A82H",
      "productName": "NEG_04_08",
      "totalDemand": 759,
      "coreDemand": 0,
      "transferCapacity": 0
    }, ...
  ]
}
```

Read more about retrieve demand in the paragraph "Documentation".

Bidding

The API supports two options for bidding:

- Upload XML REGELLEISTUNGSNACHRICHT, version 2.10.
- JSON API

Upload XML REGELLEISTUNGSNACHRICHT

With the following HTTP-POST request, you can directly submit the content of the offer XML file:

POST /v1/bidding/upload-xml --header 'Content-Type: application/xml'

The format of the uploaded xml content has to be REGELLEISTUNGSNACHRICHT XML format, version 2.10.

Read more about bidding in the paragraph "Documentation".

Retrieve CSV result file

After allocation of the tender, the provider-specific result file (CSV) can be downloaded. In the following example, the result file for the MRL_20180918_D1 is requested:

```
GET /v1/tenders/MRL_20180918_D1/bidderresults
```

Read more about result files in the paragraph "Documentation".

Documentation

Bid results : Operations to retrieve bid results.

GET /bidder-api/v1/tenders/{tenderId}/bidresults

[Lists available bid results for the tender with the given ID.](#)

Implementation Notes

This operation supports pagination.

Response Class (Status 200)

Successfully retrieved list. May be empty.

Model | Example Value

```
{
  "_embedded": [
    {
      "_links": [
        {
          "href": "string",
          "rel": "string",
          "templated": true
        }
      ],
      "bidId": "string",
      "capacityAccepted": 0,
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "controlBlock": "string",
      "energyPrice": 0,
      "paymentDirection": "PG",
      "productName": "string",
      "rankingNumber": 0,
      "timestamp": "2019-04-15T14:41:02.812Z"
    }
  ],
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ]
}
```

```
"page": {
  "number": 0,
  "size": 0,
  "totalElements": 0,
  "totalPages": 0
}
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
page	<input type="text"/>	Index of result page to retrieve	query	undefined
size	<input type="text"/>	Number of bid results per page	query	undefined
sort	<div>Provide multiple values in new lines.</div>	Sorting criteria in the format: <u>property</u> . Multiple sorting criteria are supported.	query	Array[string]
tenderId	<input type="text"/>	ID of tender	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
404	A tender with the given id was not found.		

Try it out!

Bidding : Operations to save and delete bids.

POST

/bidder-api/v1/bidding/delete-all

Delete all existing bids for a tender.

Response Class (Status 200)

Successfully deleted bids.

Model

Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ]
}
```

```
],
"bids": [
  {
    "bidId": "string",
    "capacityOffered": 0,
    "capacityPrice": 0,
    "controlArea": "string",
    "energyPrice": 0,
    "indivisible": false,
    "paymentDirection": "PG",
    "productName": "NEGPOS_00_24",
    "providerBalancingGroup": "string",
    "providerBidId": "string",
    "providerId": "string",
    "timestamp": "2019-04-15T14:41:02.843Z"
  }
],
"errors": [
  {
    "errorCode": 0,
    "message": "string",
    "relatedBid": {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.844Z"
    }
  }
],
"state": "OK",
"tenderId": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
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Parameter	Value	Description	Parameter Type	Data Type
deleteAllBidsApiCommand	<div><pre>{ "tenderId": "string" }</pre></div> <div>Parameter content type: application/json ▾</div>	deleteAllBidsApiCommand	body	<div>Model</div> <div>Example Value</div> <div><pre>{ "tenderId": "string" }</pre></div>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
422	The tender was not found.		

Try it out!

POST /bidder-api/v1/bidding/save-bids Save a list of bids for the tender with the given ID.

Response Class (Status 200)

Successfully saved bids.

Model

Example Value

```
{  
  "_links": [  
    {  
      "href": "string",  
      "rel": "string",  
      "templated": true  
    }  
  ],  
  "bids": [  
    {  
      "bidId": "string",  
      "capacityOffered": 0,  
      "capacityPrice": 0,  
      "controlArea": "string",  
      "energyPrice": 0,  
      "indivisible": false,  
      "paymentDirection": "PG",  
      "productName": "NEGPOS_00_24",  
      "providerBalancingGroup": "string",  
      "providerBidId": "string",  
      "providerId": "string",  
      "timestamp": "2019-04-15T14:41:02.869Z"  
    }  
  ]  
}
```

```
],
"errors": [
  {
    "errorCode": 0,
    "message": "string",
    "relatedBid": {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.869Z"
    }
  }
],
"state": "OK",
"tenderId": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Param Type
saveBidsApiCommand	<pre>{ "bidsToSave": [{ "capacityOffered": 0, "capacityPrice": 0, "controlArea": "string", "energyPrice": 0, "indivisible": false, "paymentDirection": "PG", "productName": "NEGPOS_00_24", "providerBalancingGroup": "string", "providerBidId": "string" }], "tenderId": "string" }</pre>	saveBidsApiCommand	body

Parameter content type:

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		

Try it out!

POST /bidder-api/v1/bidding/upload-file

Upload a bid file and save the bids.

Implementation Notes

The format of the uploaded file has to be REGELLEISTUNGSNACHRICHT XML format, version 2.10.

Response Class (Status 200)

Successfully uploaded the file.

Model	Example Value
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```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "bids": [
    {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.890Z"
    }
  ],
  "errors": [
    {
      "errorCode": 0,
      "message": "string",
      "relatedBid": {
        "bidId": "string",
        "capacityOffered": 0,
        "capacityPrice": 0,
        "controlArea": "string",
        "energyPrice": 0,
        "indivisible": false,
        "paymentDirection": "PG",
        "productName": "NEGPOS_00_24",
        "providerBalancingGroup": "string",
        "providerBidId": "string",
        "providerId": "string",
        "timestamp": "2019-04-15T14:41:02.890Z"
      }
    }
  ],
  "state": "OK",
  "tenderId": "string"
}
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
file	<input type="button" value="Datei auswählen"/>	file	formData	file

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
422	The tender was not found.		

POST /bidder-api/v1/bidding/upload-xml

Upload the xml content of a bid file and save the bids.

Implementation Notes

The format of the uploaded xml content has to be REGELLEISTUNGSNACHRICHT XML format, version 2.10.

Response Class (Status 200)

Successfully uploaded the file.

Model | Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "bids": [
    {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.902Z"
    }
  ],
  "errors": [
    {
```

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```
"errorCode": 0,
"message": "string",
"relatedBid": {
  "bidId": "string",
  "capacityOffered": 0,
  "capacityPrice": 0,
  "controlArea": "string",
  "energyPrice": 0,
  "indivisible": false,
  "paymentDirection": "PG",
  "productName": "NEGPOS_00_24",
  "providerBalancingGroup": "string",
  "providerBidId": "string",
  "providerId": "string",
  "timestamp": "2019-04-15T14:41:02.903Z"
}
},
"state": "OK",
"tenderId": "string"
}
```

Response Content Type application/json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
xml	<input type="text"/>	the XML content of the bid file	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
422	The tender was not found.		

Try it out!

POST

/bidder-api/v1/bidding/validate-file

Upload a bid file for validation without saving the bids.

Implementation Notes

The format of the uploaded file has to be REGELLEISTUNGSNACHRICHT XML format, version 2.10.

Response Class (Status 200)

Successfully uploaded the file.

Model | Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",

```

```

    "templated": true
  }
],
"bids": [
  {
    "bidId": "string",
    "capacityOffered": 0,
    "capacityPrice": 0,
    "controlArea": "string",
    "energyPrice": 0,
    "indivisible": false,
    "paymentDirection": "PG",
    "productName": "NEGPOS_00_24",
    "providerBalancingGroup": "string",
    "providerBidId": "string",
    "providerId": "string",
    "timestamp": "2019-04-15T14:41:02.915Z"
  }
],
"errors": [
  {
    "errorCode": 0,
    "message": "string",
    "relatedBid": {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.915Z"
    }
  }
],
"state": "OK",
"tenderId": "string"
}

```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
file	<input type="text" value="Datei auswählen"/>	file	formData	file

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		

HTTP Status Code	Reason	Response Model	Headers
422	The tender was not found.		

Try it out!

POST /bidder-api/v1/bidding/validate-xml

Upload the xml content of a bid file for validation without saving the bids.

Implementation Notes

The format of the uploaded xml content has to be REGELLEISTUNGSNACHRICHT XML format, version 2.10.

Response Class (Status 200)

Successfully uploaded the file.

Model | Example Value

```

{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "bids": [
    {
      "bidId": "string",
      "capacityOffered": 0,
      "capacityPrice": 0,
      "controlArea": "string",
      "energyPrice": 0,
      "indivisible": false,
      "paymentDirection": "PG",
      "productName": "NEGPOS_00_24",
      "providerBalancingGroup": "string",
      "providerBidId": "string",
      "providerId": "string",
      "timestamp": "2019-04-15T14:41:02.927Z"
    }
  ],
  "errors": [
    {
      "errorCode": 0,
      "message": "string",
      "relatedBid": {
        "bidId": "string",
        "capacityOffered": 0,
        "capacityPrice": 0,
        "controlArea": "string",
        "energyPrice": 0,
        "indivisible": false,
        "paymentDirection": "PG",
        "productName": "NEGPOS_00_24",
        "providerBalancingGroup": "string",
        "providerBidId": "string",

```

```
    "providerId": "string",
    "timestamp": "2019-04-15T14:41:02.927Z"
  }
},
"state": "OK",
"tenderId": "string"
}
```

Response Content Type application/json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
xml	<input type="text"/>	the XML content of the bid file	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
422	The tender was not found.		

Try it out!

Bids : Operations to retrieve bids.

GET /bidder-api/v1/tenders/{tenderId}/bids Lists available bids for the tender with the given ID.

Implementation Notes

Retrieves an empty list if the tender was not found.

Response Class (Status 200)

Successfully retrieved list. May be empty.

Model | Example Value

```
[
  {
    "_links": [
      {
        "href": "string",
        "rel": "string",
        "templated": true
      }
    ],
    "bidId": "string",
    "capacityOffered": 0,
    "capacityPrice": 0,
    "controlArea": "string",
    "energyPrice": 0,
    "indivisible": false,
    "paymentDirection": "PG",
  }
]
```

```
    "productName": "NEGPOS_00_24",
    "providerBalancingGroup": "string",
    "providerBidId": "string",
    "providerId": "string",
    "timestamp": "2019-04-15T14:41:02.947Z"
  }
]
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	<input type="text"/>	ID of tender	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		

Try it out!

Provider data : Operations to retrieve provider data.

GET

/bidder-api/v1/provider-data

Lists provider data depending on the given tender.

Implementation Notes

Provider data is dependent on the tenders data (producttype, periodfrom, periodto). If no tender is specified, all eligible provider data is retrieved. Only data of the currently logged-in provider is retrieved.

Response Class (Status 200)

Successfully retrieved list

Model | Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "contracts": [
    {
      "balancingGroup": "string",
      "controlArea": "string",
      "number": "string",
      "productType": "FCR",
      "tso": "string",
      "validFrom": "2019-04-15",
      "validTo": "2019-04-15"
    }
  ]
}
```

```
],
"providerAbbreviation": "string",
"providerName": "string",
"ptuCapacities": [
  {
    "controlArea": "string",
    "maxNegativeReserve": 0,
    "maxPositiveReserve": 0,
    "name": "string",
    "productType": "FCR",
    "validFrom": "2019-04-15",
    "validTo": "2019-04-15"
  }
]
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	<input type="text"/>	ID of tender	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
422	The tender was not found.		

Try it out!

Result files : Operations to retrieve result files.

GET /bidder-api/v1/tenders/resultfiles/{fileId} [Get information for a result file with the given id.](#)

Response Class (Status 200)

Successfully retrieved result file data.

Model | Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "fileId": "string",
  "name": "string",
  "size": 0,
```


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```
"version": 0
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
fileId	<input type="text"/>	ID of file	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
404	The given file was not found.		

Try it out!

GET /bidder-api/v1/tenders/resultfiles/{fileId}/downloadDownload the result file with the given id.

Parameters

Parameter	Value	Description	Parameter Type	Data Type
fileId	<input type="text"/>	ID of file	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Successfully retrieved the result file.		
401	The client was not authorized to access the resource.		
404	The given file was not found.		

Try it out!

GET /bidder-api/v1/tenders/{tenderId}/bidderresultsDownload the bidder result file for the given tender.

Implementation Notes

Downloads the provider specific bidder result file for the currently logged-in provider.

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	<input type="text"/>	ID of tender	path	string

Response Messages

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HTTP Status Code	Reason	Response Model	Headers
200	Successfully retrieved bidder result file.		
401	The client was not authorized to access the resource.		
404	The given tender was not found or no bidder result file exists for this tender.		

Try it out!

GET

/bidder-api/v1/tenders/{tenderId}/resultfiles

Get a list of all result files for the given tender.

Implementation Notes

Retrieves all provider specific result files for the logged-in provider and all anonymous result files.

Response Class (Status 200)

Successfully retrieved result file list.

Model

Example Value

```
[
  {
    "_links": [
      {
        "href": "string",
        "rel": "string",
        "templated": true
      }
    ],
    "fileId": "string",
    "name": "string",
    "size": 0,
    "version": 0
  }
]
```

Response Content Type

/

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	<input type="text"/>	ID of tender	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
404	The given tender was not found.		

[Try it out!](#)

Tender data : Operations to retrieve tenders.

GET /bidder-api/v1/tenders

[Gets all tenders.](#)

Implementation Notes

Returns all tenders for the given period. If productType is not specified, all productTypes (currently aFRR and mFRR) are used. This operation supports pagination.

Response Class (Status 200)

Successfully retrieved the list of tenders.

Model | Example Value

```
{
  "_embedded": [
    {
      "_links": [
        {
          "href": "string",
          "rel": "string",
          "templated": true
        }
      ],
      "allocationDeadline": "2019-04-15T14:41:02.995Z",
      "gateClosureTime": "2019-04-15T14:41:02.995Z",
      "gateOpenTime": "2019-04-15T14:41:02.995Z",
      "iterationNumber": 0,
      "periodFrom": "2019-04-15",
      "periodTo": "2019-04-15",
      "productType": "FCR",
      "tenderId": "string",
      "tenderState": "OPEN",
      "tenderType": "DAILY"
    }
  ],
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "page": {
    "number": 0,
    "size": 0,
    "totalElements": 0,
    "totalPages": 0
  }
}
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
page	<input type="text"/>	Index of result page to retrieve	query	undefined
size	<input type="text"/>	Number of bid results per page	query	undefined
sort	<div>Provide multiple values in new lines.</div>	Sorting criteria in the format: property . Multiple sorting criteria are supported.	query	Array[string]
productType	<div><div></div></div>	Product type abbreviation.	query	string
from	<input type="text"/>	Validity period from, related to the gate closure time of the tender.	query	string
to	<input type="text"/>	Validity period to, related to the gate closure time of the tender.	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
400	If the given time range is incorrect (from > to).		
401	The client was not authorized to access the resource.		

Try it out!

GET

/bidder-api/v1/tenders/{tenderId}

Gets a tender by its id.

Response Class (Status 200)

Successfully retrieved the tender.

Model | Example Value

```
{
  "_links": [
    {
      "href": "string",
      "rel": "string",
      "templated": true
    }
  ],
  "allocationDeadline": "2019-04-15T14:41:03.016Z",
  "gateClosureTime": "2019-04-15T14:41:03.016Z",
  "gateOpenTime": "2019-04-15T14:41:03.016Z",
  "iterationNumber": 0,
```

```
"periodFrom": "2019-04-15",
"periodTo": "2019-04-15",
"productType": "FCR",
"tenderId": "string",
"tenderState": "OPEN",
"tenderType": "DAILY"
}
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	(required)	tenderId	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
404	A tender with the given id was not found.		

Try it out!

GET /bidder-api/v1/tenders/{tenderId}/demands Gets all demands of a tender.

Response Class (Status 200)

Successfully retrieved the tender.

Model | Example Value

```
{
  "controlAreaDemands": [
    {
      "controlArea": "string",
      "controlBlock": "string",
      "coreDemand": 0,
      "productName": "NEGPOS_00_24"
    }
  ],
  "controlBlockDemands": [
    {
      "controlBlock": "string",
      "coreDemand": 0,
      "productName": "NEGPOS_00_24",
      "totalDemand": 0,
      "transferCapacity": 0
    }
  ]
}
```

Response Content Type application/hal+json ▾

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tenderId	<input type="text" value="(required)"/>	tenderId	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	The client was not authorized to access the resource.		
404	A tender with the given id was not found.		

[BASE URL: /apps/bsp-backend/ , API VERSION: 1.0]