

API Reference

# Mozaik Visualization

API Version: 1.0.0

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# API

## 1. ADS

Everything about analysis data structures

### 1.1 GET /analysis\_ds

#### Get specific ADS

Returns different schema of ADS depending on the provided identifier. May require to issue other requests to get all of the data.

#### REQUEST

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*identifier	enum ALLOWED: SingleValue, SingleValueList, PerNeuronValue, PerNeuronPairValue, AnalogSignal, AnalogSignalList, PerNeuronPairAnalogSignalList, ConductanceSignalList, Connections	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	
tags	array of string	

#### RESPONSE

STATUS CODE - 200: Successful operation

##### RESPONSE MODEL - application/json

```
{
  tags          [string]
  unit          string
  sheet         string
  neuron        integer
  period        number
  stimulus {
  }
  algorithm     string
  valueName     string
  identifier     enum      ALLOWED:SingleValue, SingleValueList, PerNeuronValue,
                             PerNeuronPairValue, AnalogSignal, AnalogSignalList,
                             PerNeuronPairAnalogSignalList, ConductanceSignalList,
                             Connections
}
```

STATUS CODE - 400: Invalid parameters or unimplemented ADS type

1.2 GET /analysis\_ds/asl

Get ASL values

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	
tags	array of string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string

STATUS CODE - 400: Invalid parameters supplied

1.3 GET /analysis\_ds/pnpv

Get PNPV values

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
stimulus	object	
sheet	string	
*algorithm	string	
valueName	string	
neuron	string	
tags	array of string	

RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string

STATUS CODE - 400: Invalid parameters supplied

### 1.4 GET /analysis\_ds\_list

Get list of all ADS

#### REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	

#### RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
[{
  Array of object:
    tags          [string]
    unit          string
    sheet         string
    neuron        integer
    period        number
    stimulus {
    }
    algorithm     string
    valueName     string
    identifier    enum      ALLOWED:SingleValue, SingleValueList, PerNeuronValue,
                              PerNeuronPairValue, AnalogSignal, AnalogSignalList,
                              PerNeuronPairAnalogSignalList, ConductanceSignalList,
                              Connections
  }]
```

STATUS CODE - 400: Invalid parameters supplied

## 2. FILESYSTEM

Access to the filesystem

### 2.1 GET /filesystem

#### Get listing of a directory

Lists all datastores and directories in the provided directory

#### REQUEST

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
path	string	

#### RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  name      string
  content   [string]
  datastore boolean
}
```

STATUS CODE - 400: Invalid path supplied

### 2.2 GET /recursive\_filesystem

#### Get recursive listing of a directory

Lists all directories in the provided directory and its descendats. Collapses directory paths and filters out paths with no datastores.

#### REQUEST

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
path	string	

#### RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  name      string
```

```
content [{  
  Array of object:  
}]  
datastore boolean  
}
```

**STATUS CODE - 400:** Invalid path supplied

---

## 3. MODEL

Access to sheets and connections

### 3.1 GET /model

#### Get model metadata

Get sheet names and count of neurons for each of them, as well as count of connections between each of them

#### REQUEST

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	

#### RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - application/json

```
{
  sheets [{
    Array of object:
    size integer
    label string
  }]
  connections [{
    Array of object:
    src string
    size integer
    target string
  }]
}
```

STATUS CODE - 400: Invalid parameters supplied

### 3.2 GET /model/positions

#### Get neuron positions for a given sheet

#### REQUEST

##### QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*sheet	string	



## RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string  
id,x,y

STATUS CODE - 400: Invalid parameters supplied

## 3.3 GET /model/connections

Get connections between two sheets

## REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*path	string	
*src	string	
*tgt	string	

## RESPONSE

STATUS CODE - 200: Successful operation

RESPONSE MODEL - text/csv

string  
srcIndex,tgtIndex,weight,delay

STATUS CODE - 400: Invalid parameters supplied