

Data Sources API (BETA)

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Based on REST principles, the TrendMiner Data Sources API endpoints provide access to data source configuration and operations related to synchronization and requesting data from sources.

Chapter 1. Authentication

All requests to the web API require authentication. This is achieved by sending a valid Bearer access token in the request headers. Request tokens are obtained using OAuth2.0.

Requests to the API can be done authenticated as your client or authenticated as a specific user. In both cases, you will first need to create a client and request a token.

When performing actions authenticated as a client, they will belong to `service-account-CLIENTID`.

Make sure you are calling our services over HTTPS when retrieving an access token.

1.1. Creating a new client

A new client can be created in ConfigHub: Security → Clients → Add client

1.2. Retrieving an access token

1.2.1. For your client

To retrieve a token to authenticate as your client, you will need:

- Your client ID
- Your client secret (can be obtained in ConfigHub)

A token is requested from the token endpoint of the authentication service:

Request

```
curl --request POST \  
  --url 'https://YOUR_DOMAIN/auth/realms/trendminer/protocol/openid-connect/token' \  
  --header 'content-type: application/x-www-form-urlencoded' \  
  --data grant_type=client_credentials \  
  --data client_id=YOUR_CLIENT_ID \  
  --data client_secret=YOUR_CLIENT_SECRET
```

Upon valid authentication, the response will contain an access token.

Response

```
200 OK
{
  "access_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJwcXZ1UXB...", ①
  "expires_in": 300,
  "refresh_expires_in": 0,
  "token_type": "Bearer",
  "not-before-policy": 1571391000,
  "scope": "email profile"
}
```

① The access token is to be used in every request towards our services (see example below). A new token needs to be fetched when the token expires after 5 minutes.

1.2.2. For a specific user

To retrieve a token to authenticate as a specific user, you will need:

- Your client ID
- Your client secret (can be obtained in ConfigHub)
- The user's username
- The user's password

A token is requested from the token endpoint of the authentication service.

Request

```
curl --request POST \
--url 'https://YOUR_DOMAIN/auth/realms/trendminer/protocol/openid-connect/token' \
--header 'content-type: application/x-www-form-urlencoded' \
--data grant_type=password \
--data client_id=YOUR_CLIENT_ID \
--data client_secret=YOUR_CLIENT_SECRET \
--data username=USERNAME \
--data password=PASSWORD
```


Response

```
200 OK
{
  "access_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJwcXZ1UXB...", ①
  "refresh_token": "eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI0M2U1YR...", ②
  "expires_in": 300,
  "refresh_expires_in": 1800,
  "token_type": "Bearer",
  "not-before-policy": 1571391000,
  "scope": "email profile"
}
```

- ① The access token is to be used in every request towards our services (see example below). A new token needs to be fetched when the token expires after 5 minutes.
- ② The refresh token can be used to retrieve a new access token for the same session

Using the refresh token

The refresh token can be used to retrieve a new access token for the same session:

Request

```
curl --request POST \
--url 'https://YOUR_DOMAIN/auth/realms/trendminer/protocol/openid-connect/token' \
--header 'content-type: application/x-www-form-urlencoded' \
--data grant_type=refresh_token \
--data client_id=YOUR_CLIENT_ID \
--data client_secret=YOUR_CLIENT_SECRET \
--data refresh_token=REFRESH_TOKEN
```

=== Doing a request with an access token

Example request with access token

```
curl --request GET \
--url 'https://YOUR_DOMAIN/ds/[any api]' \
--header 'Authorization: Bearer ACCESS_TOKEN'
```

Chapter 2. Resources

2.1. Asset

2.1.1. Get a specific asset denoted by the provided assetId

GET /datasources/{id}/assets/{assetId}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Path required	assetId	The identifier of the asset	String

Responses

HTTP Code	Description	Schema
404	The resource was not found	AssetRepresentation
200	Ok	AssetRepresentation
501	Datasource does not support 'ASSET' capability	AssetRepresentation

Produces

- application/json

2.1.2. Get assets by ids from the tree

POST /datasources/{id}/assets

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Body <i>required</i>	string		[string]

Responses

HTTP Code	Description	Schema
404	The resource was not found	List[AssetRepresentation]
200	Ok	List[AssetRepresentation]
501	Datasource does not support 'ASSET' capability	List[AssetRepresentation]

Produces

- application/json

2.1.3. Get all root assets from the tree

GET /datasources/{id}/assets

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	List[AssetRepresentation]
200	Ok	List[AssetRepresentation]

Produces

- application/json

2.2. Configuration

2.2.1. Get the full list of configuration items

GET /configurations

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
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200	Ok	PagedModelConfigurationItemRepresentation
-----	----	---

Produces

- application/json
- application/hal+json

2.2.2. Get a configuration item by name

GET /configurations/{name}

Parameters

Type	Name	Description	Schema
Path required	name	Name of the configuration item to return	String

Responses

HTTP Code	Description	Schema
200	Ok	ConfigurationItemRepresentation

Produces

- application/json

2.2.3. Update a configuration item.

PUT /configurations/{name}

Parameters

Type	Name	Description	Schema
Path required	name	Name of the configuration item to update	String
Query required	value	New value to update	

Responses

HTTP Code	Description	Schema
404	The configuration item was not found	ConfigurationItemRepresentation
200	Successfully updated configuration item	ConfigurationItemRepresentation

Produces

- /

2.3. Connectors

2.3.1. Create a new connector.

POST /connectors

Parameters

Type	Name	Description	Schema
Body <i>required</i>	ConnectorModel		ConnectorModel

Responses

HTTP Code	Description	Schema
400	Bad Request	ConnectorRepresentation
201	Created	ConnectorRepresentation

Produces

- application/json

2.3.2. Delete a connector.

DELETE /connectors/{id}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	id	The identifier of the connector	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.3.3. Get a list of all connectors

GET /connectors

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelConnectorRepresentation

Produces

- application/json
- application/hal+json

2.3.4. Get the connector for the specified identifier.

GET /connectors/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the connector	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	ConnectorRepresentation
200	Ok	ConnectorRepresentation

Produces

- application/json

2.3.5. Get the version of a connector.

GET /connectors/{id}/version

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the connector	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	VersionInfo
200	Ok	VersionInfo

Produces

- /

2.3.6. Get a list of all datasources which belong to a connector

GET /connectors/datasources

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelDatasourceRepresentation

Produces

- application/json

- application/hal+json

2.3.7. Synchronizes a connector.

POST /connectors/{id}/sync

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the connector	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
200	Ok	

2.3.8. Test connector connection.

POST /connectors/{id}/test

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the connector	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	ConnectionTest
200	Ok	ConnectionTest

Produces

- /

2.3.9. Update a connector.

PUT /connectors/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the connector	UUID
Body required	ConnectorModel		ConnectorModel

Responses

HTTP Code	Description	Schema
400	Bad Request	ConnectorRepresentation
404	The resource was not found	ConnectorRepresentation
200	Ok	ConnectorRepresentation

Produces

- application/json

2.4. Context

2.4.1. Returns a list of changed context items in the source system as well as the type of change that happened.

GET /datasources/{id}/context/changes

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Query required	since	The start date of the query period. Internet DateTime format, see RFC3339 e.g.: '2012-01-01T00:00:00Z'.	
Query optional	page	The page to get. This is a cookie that is returned by a previous call to the /changes endpoint.	
Query optional	size	The page size	

Responses

HTTP Code	Description	Schema
404	The resource was not found	CursorPagedResourcesContextChange
501	Datasource does not support 'CONTEXT' capability	CursorPagedResourcesContextChange
200	Ok	CursorPagedResourcesContextChange

Produces

- application/json

- application/hal+json

2.4.2. Get a list of available context fields for the given datasource

GET /datasources/{id}/context/field

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelFieldRepresentation
501	Datasource does not support 'CONTEXT' capability	PagedModelFieldRepresentation
200	Ok	PagedModelFieldRepresentation

Produces

- application/json
- application/hal+json

2.4.3. Get a context item for the given datasource and context id.

GET /datasources/{id}/context/{contextItemId}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Path required	contextItemId	The identifier of the contextItem	String
----------------------	----------------------	-----------------------------------	--------

Responses

HTTP Code	Description	Schema
404	The resource was not found	ContextItemRepresentation
501	Datasource does not support 'CONTEXT' capability	ContextItemRepresentation
200	Ok	ContextItemRepresentation

Produces

- application/json
- application/hal+json

2.4.4. Get a list of context items for the given datasource

GET /datasources/{id}/context

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Query required	startDate	The start date of the query period. Internet DateTime format, see RFC3339 e.g.: '2012-01-01T00:00:00Z'.	
Query required	endDate	The end date of the query period. Internet DateTime format, see RFC3339 e.g.: '2012-01-01T00:00:00Z'.	
Query optional	createdAfter	Returned context items need to be created after this date. Internet DateTime format, see RFC3339 e.g.: '2012-01-01T00:00:00Z'.	
Query optional	page	Zero-based page index (0..N)	
Query optional	size	The size of the page to be returned	

Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.
---------------------------------	-------------	---	---

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelContextItemRepresentation
501	Datasource does not support 'CONTEXT' capability	PagedModelContextItemRepresentation
200	Ok	PagedModelContextItemRepresentation

Produces

- application/json
- application/hal+json

2.4.5. Get a list of context items for the given datasource and context identifiers.

POST /datasources/{id}/context

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Body required	string		[string]

Responses

HTTP Code	Description	Schema
404	The resource was not found	List[ContextItemRepresentation]
501	Datasource does not support 'CONTEXT' capability	List[ContextItemRepresentation]
200	Ok	List[ContextItemRepresentation]

Produces

- application/json
- application/hal+json

2.4.6. Get a list of available context types for the given datasource

GET /datasources/{id}/context/type

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelContextTypeRepresentation
501	Datasource does not support 'CONTEXT' capability	PagedModelContextTypeRepresentation
200	Ok	PagedModelContextTypeRepresentation

Produces

- application/json
- application/hal+json

2.4.7. Get a list of available context workflows for the given datasource

GET /datasources/{id}/context/workflow

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Path required	id	The identifier of the datasource	UUID
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelWorkflowRepresentation
501	Datasource does not support 'CONTEXT' capability	PagedModelWorkflowRepresentation
200	Ok	PagedModelWorkflowRepresentation

Produces

- application/json
- application/hal+json

2.5. Datasources

2.5.1. Create a new datasource.

POST /datasources

Parameters

Type	Name	Description	Schema
Body <i>required</i>	DatasourceModel		DatasourceModel

Responses

HTTP Code	Description	Schema
400	Bad Request	DatasourceRepresentation

404	The resource was not found	DatasourceRepresentation
201	Created	DatasourceRepresentation

Produces

- application/json

2.5.2. Delete a datasource.

DELETE /datasources/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.5.3. Get the datasource for the specified identifier.

GET /datasources/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	DatasourceRepresentation
200	Ok	DatasourceRepresentation

Produces

- application/json

2.5.4. Get a list of all datasources

GET /datasources

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	type	The datasource type	
Query <i>optional</i>	capabilityType	The capability type	
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelDatasourceRepresentation

Produces

- application/json
- application/hal+json

2.5.5. Synchronizes datasource time series definitions.

POST /datasources/{id}/sync

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
200	Ok	

2.5.6. Test datasource time series definitions.

POST /datasources/{id}/test

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	ConnectionStatus
200	Ok	ConnectionStatus

Produces

- /

2.5.7. Update a datasource.

PUT /datasources/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the datasource	UUID
Body required	DatasourceModel		DatasourceModel

Responses

HTTP Code	Description	Schema
400	Bad Request	DatasourceRepresentation
404	The resource was not found	DatasourceRepresentation
200	Ok	DatasourceRepresentation

Produces

- application/json

2.6. ImportedTimeSeries

2.6.1. Delete an imported time series.

DELETE /imported/timeseries/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the imported time series	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.6.2. Delete all imported time series.

DELETE /imported/timeseries/

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.6.3. Get the imported time series by specified id.

GET /imported/timeseries/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the imported time series	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	ImportedTimeSeriesRepresentation
200	Ok	ImportedTimeSeriesRepresentation

Produces

- application/json

2.6.4. Search the imported time series.

GET /imported/timeseries

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelImportedTimeSeriesRepresentation

Produces

- application/json

2.6.5. Imports time series from a csv file

POST /imported/timeseries

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Responses

HTTP Code	Description	Schema
204	Valid	List[NotImportedTimeSeries]
400	Bad Request	List[NotImportedTimeSeries]
422	Validation error	List[NotImportedTimeSeries]

Produces

- /

2.7. LegacyTimeSeries

2.7.1. Get the timeseries definition for the specified id

GET /legacy-timeseries/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the timeseries definition	UUID
Query <i>optional</i>	fetchStates	Should fetch states	

Responses

HTTP Code	Description	Schema
404	The resource was not found	LegacyTagDetailsModel
200	Ok	LegacyTagDetailsModel

Produces

- /

2.7.2. Get timeseries definition accessibility details.

GET /legacy-timeseries/accessibility

Parameters

Type	Name	Description	Schema
Query <i>required</i>	tagName	The name of the timeseries definition	

Responses

HTTP Code	Description	Schema
404	The resource was not found	LegacyAccessibilityModel
200	Ok	LegacyAccessibilityModel

Produces

- application/json

2.7.3. Get the timeseries definition by name query parameter.

GET /legacy-timeseries

Parameters

Type	Name	Description	Schema
Query <i>required</i>	tagName	The name of the timeseries definition	
Query <i>optional</i>	fetchStates	Should fetch states	

Responses

HTTP Code	Description	Schema
404	The resource was not found	LegacyTagDetailsModel
200	Ok	LegacyTagDetailsModel

Produces

- application/json

2.7.4. Get all states of the timeseries definition by id query parameter.

GET /legacy-timeseries/{id}/states

Parameters

Type	Name	Description	Schema
Path <i>required</i>	id	The id of the timeseries definition	String

Responses

HTTP Code	Description	Schema
404	The resource was not found	List[LegacyStateModel]
200	Ok	List[LegacyStateModel]

Produces

- /

2.8. Providers

2.8.1. Get a list of all providers and their metadata

GET /providers

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Responses

HTTP Code	Description	Schema
200	Ok	List[ProviderMetaDataRepresentation]

Produces

- application/json
- application/hal+json

2.8.2. Get a provider and its metadata

GET /providers/{name}

Parameters

Type	Name	Description	Schema
Path required	name		String

Responses

HTTP Code	Description	Schema
200	Ok	ProviderMetaDataRepresentation

Produces

- application/json
- application/hal+json

2.9. TimeSeries

2.9.1. EXPERIMENTAL - basic search

POST /timeseries/basicsearch

Parameters

Type	Name	Description	Schema
Body <i>required</i>	BasicSearchRequest		BasicSearchRequest

Responses

HTTP Code	Description	Schema
200	OK	CollectionModelTimeSeriesDefinitionRepresentation

Produces

- application/json
- application/hal+json

2.9.2. EXPERIMENTAL - advanced search

POST /timeseries/advancedsearch

Parameters

Type	Name	Description	Schema
Body <i>required</i>	AdvancedSearchRequest		AdvancedSearchRequest

Responses

HTTP Code	Description	Schema
200	OK	CollectionModelTimeSeriesDefinitionRepresentation

Produces

- application/json
- application/hal+json

2.9.3. Search the time series definition by name and description patterns

GET /timeseries/advanced

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Query <i>optional</i>	nameSearchPattern	Pattern to search time series definitions by name.	
Query <i>optional</i>	descriptionSearchPattern	Pattern to search time series definitions by description.	
Query <i>optional</i>	historians	Pattern to search time series definitions by description	
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelTimeSeriesDefinitionRepresentation

Produces

- application/json
- application/hal+json

2.9.4. Check whether the logged in user is allowed to read the time series.

GET /timeseries/{id}/accessibility

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID

Responses

HTTP Code	Description	Schema
200	Ok	String

Produces

- application/json

2.9.5. Create a new time series definition.

POST /timeseries

Parameters

Type	Name	Description	Schema
Body <i>required</i>	TimeSeriesDefinitionModel		TimeSeriesDefinitionModel

Responses

HTTP Code	Description	Schema
400	Bad Request	TimeSeriesDefinitionRepresentation
201	Created	TimeSeriesDefinitionRepresentation

Produces

- application/json

2.9.6. Delete time series definitions.

DELETE /timeseries/{ids}

Parameters

Type	Name	Description	Schema
Path required	ids	The id's of the time series	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.9.7. Deletes a time series definition by datasource id and external id

DELETE /timeseries

Parameters

Type	Name	Description	Schema
Query <i>required</i>	datasourceId	The identifier of the datasource	
Query <i>required</i>	externalId	The external identifier of the time series.	

Responses

HTTP Code	Description	Schema
404	The resource was not found	
204	No content	

2.9.8. Get the value mapping for the specified time series, string or int value. If stringValue is present and autocreate=true - new value mapping entry will be created

GET /timeseries/{id}/valuemapping

Parameters

Type	Name	Description	Schema
Path <i>required</i>	id	The identifier of the time series definition	UUID
Query <i>optional</i>	intValue	Int value of value mapping	
Query <i>optional</i>	stringValue	String value of value mapping	
Query <i>optional</i>	autocreate	Create new value mapping if string value is not present for requested time series definition	

Responses

HTTP Code	Description	Schema
404	The resource was not found	TimeSeriesValueMappingRepresentation
200	Ok	TimeSeriesValueMappingRepresentation

Produces

- application/json

2.9.9. Get the time series definition for the specified identifier.

GET /timeseries/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	TimeSeriesDefinitionRepresentation
200	Ok	TimeSeriesDefinitionRepresentation

Produces

- application/json

2.9.10. Get the time series definition for the specified identifier with dependency tree.

GET /timeseries/{id}/dependency-tree

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID

Responses

HTTP Code	Description	Schema
404	The resource was not found	TimeSeriesDependencyTreeDefinitionRepresentation
200	Ok	TimeSeriesDependencyTreeDefinitionRepresentation

Produces

- application/json

2.9.11. Get the time series definition by external id for the specified identifier with dependency tree.

GET /timeseries/dependency-tree

Parameters

Type	Name	Description	Schema
Query <i>required</i>	datasourceId	The identifier of the datasource.	
Query <i>required</i>	externalId	The external identifier of the time series definition	
Query <i>optional</i>	deletedAllowed	Allow deleted time series definition	

Responses

HTTP Code	Description	Schema
404	The resource was not found	TimeSeriesDependencyTreeDefinitionRepresentation
200	Ok	TimeSeriesDependencyTreeDefinitionRepresentation

Produces

- application/json

2.9.12. Get the time series definitions relations.

GET /timeseries/relations

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	

Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.
---------------------------------	-------------	---	---

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelTimeSeriesRelationRepresentation

Produces

- application/json

2.9.13. Get all digital states for the specified time series.

GET /timeseries/{id}/valuesmapping

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelTimeSeriesValueMappingRepresentation
200	Ok	PagedModelTimeSeriesValueMappingRepresentation

Produces

- application/json
- application/hal+json

2.9.14. Get the digital states by intValue for the specified time series.

POST /timeseries/{id}/valuesmapping

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID
Body optional	body	The identifiers of the value mappings (as array)	[string]

Responses

HTTP Code	Description	Schema
404	The resource was not found	List[TimeSeriesValueMappingRepresentation]
200	Ok	List[TimeSeriesValueMappingRepresentation]

Produces

- application/json
- application/hal+json

2.9.15. Effective index horizon

GET /timeseries/indexhorizon

Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Responses

HTTP Code	Description	Schema
200	OK	IndexHorizonRepresentation

Produces

- application/json

2.9.16. Search the time series definition with rsql.

POST /timeseries/search

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	deletedAllowed	True if deleted time series should be returned	
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.
[String]	Body <i>required</i>	RsqlRequest	

Responses

HTTP Code	Description	Schema
200	OK	PagedModelTimeSeriesDefinitionRepresentation

Produces

- application/json
- application/hal+json

2.9.17. Search the time series definitions

GET /timeseries

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	searchPattern	Pattern to search time series definitions. Cannot be used at the same time as name parameter.	

Query <i>optional</i>	name	The name of the time series definitions to search for. Cannot be used at the same time as searchPattern parameter.	
Query <i>optional</i>	deletedAllowed	Allow deleted time series definition	
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	
Query <i>optional</i>	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
200	Ok	PagedModelTimeSeriesDefinitionRepresentation

Produces

- application/json
- application/hal+json

2.9.18. Search digital states for the specified time series with rsql.

POST /timeseries/{id}/valuesmapping/search

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID
Query <i>optional</i>	page	Zero-based page index (0..N)	
Query <i>optional</i>	size	The size of the page to be returned	

Query <i>optional</i>	sort	Sorting criteria in the format: property(asc	desc). Default sort order is ascending. Multiple sort criteria are supported.
[String]	Body <i>required</i>	RsqlRequest	

Responses

HTTP Code	Description	Schema
404	The resource was not found	PagedModelTimeSeriesValueMappingRepresentation
200	Ok	PagedModelTimeSeriesValueMappingRepresentation

Produces

- application/json
- application/hal+json

2.9.19. Update a time series definition.

PUT /timeseries/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The identifier of the time series definition	UUID
Body <i>required</i>	TimeSeriesDefinitionModel		TimeSeriesDefinitionModel

Responses

HTTP Code	Description	Schema
400	Bad Request	TimeSeriesDefinitionRepresentation
404	The resource was not found	TimeSeriesDefinitionRepresentation
200	Ok	TimeSeriesDefinitionRepresentation

Produces

- application/json

2.9.20. Update a time series definition by datasource id and external id.

PUT /timeseries

Parameters

Type	Name	Description	Schema
Query <i>required</i>	datasourceId	The identifier of the datasource	
Query <i>required</i>	externalId	The external identifier of the time series.	
Body <i>required</i>	TimeSeriesDefinitionModel		<i>TimeSeriesDefinitionModel</i>

Responses

HTTP Code	Description	Schema
400	Bad Request	TimeSeriesDefinitionRepresentation
404	The resource was not found	TimeSeriesDefinitionRepresentation
200	Ok	TimeSeriesDefinitionRepresentation

Produces

- application/json

Chapter 3. Models

3.1. *AdvancedSearchRequest*

Field Name	Required	Type	Description	Format
name		String		
description		String		
datasources		List of UUID		uuid

3.2. *Asset*

Field Name	Required	Type	Description	Format
identifier		String		
parentIdentifier		String		
type		String		
template		Template		
data		Data		
name		String		
description		String		

3.3. *AssetRepresentation*

Field Name	Required	Type	Description	Format
identifier		String		
parentIdentifier		String		
type		String		
children		List of Asset		
template		Template		
data		oneOf<DataReferenceData,NumericData,StringArrayData,StringData>		
name		String		
description		String		
links		List of Link		

3.4. *BasicSearchRequest*

Field Name	Required	Type	Description	Format
query	X	String		
datasources		List of [UUID]		uuid

3.5. *CapabilitiesModel*

Field Name	Required	Type	Description	Format
canChangeInterpolationType		Boolean		

3.6. *CapabilityProperty*

Field Name	Required	Type	Description	Format
name		String		
label		String		
placeholder		String		
type		String		Enum: SINGLE_LINE, MULTI_LINE, BOOL, DROPDOWN,
capabilities		List of [string]		Enum:
options		List of DropDownOption		
required		Boolean		
encrypted		Boolean		

3.7. *CollectionModelTimeSeriesDefinitionRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of TimeSeriesDefinitionRepresentation		

3.8. Component

Field Name	Required	Type	Description	Format
identifier		String		
type		String		

3.9. ComponentModel

Field Name	Required	Type	Description	Format
identifier		String		
type		String		

3.10. ConfigurationItemRepresentation

Field Name	Required	Type	Description	Format
name		String		
value		String		
description		String		
createdBy		String		
createOn		Date		date-time
modifiedBy		String		
modifiedOn		Date		date-time
links		List of Link		

3.11. ConnectionStatus

Field Name	Required	Type	Description	Format
healthy		Boolean		

3.12. ConnectionTest

Field Name	Required	Type	Description	Format
networkLatency		Long		int64
connectionSpeed		Long		int64

Field Name	Required	Type	Description	Format
retriesCount		Long		int64

3.13. ConnectorModel

Field Name	Required	Type	Description	Format
name	X	String		
description		String		
host	X	String		
username		String		
password		String		
maxConnections		Integer		int32

3.14. ConnectorRepresentation

Field Name	Required	Type	Description	Format
name		String		
description		String		
status		String		Enum: ACTIVE, DELETED, SYNC_IN_PROGRESS, SYNC_ERROR, NOT_SYNCABLE,
statusDescription		String		
host		String		
username		String		
password		String		
syncedBy		String		
syncedOn		Date		date-time
createdBy		String		
createOn		Date		date-time

Field Name	Required	Type	Description	Format
modifiedBy		String		
modifiedOn		Date		date-time
connectorId		UUID		uuid
links		List of Link		

3.15. *ContextChange*

Field Name	Required	Type	Description	Format
changedItem		ContextItem		
changeType		String		<i>Enum:</i> ADD, MODIFY, DELETE,

3.16. *ContextItem*

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
description		String		
type		ContextTypeItem		
events		List of Event		
components		List of Component		
fields		List of [map]		
keywords		List of [string]		
lastModifiedDate		String		
errors		List of Error		

3.17. *ContextItemRepresentation*

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
description		String		

Field Name	Required	Type	Description	Format
type		ContextTypeItemModel		
events		List of EventModel		
components		List of ComponentModel		
fields		List of [map]		
keywords		List of [string]		
lastModifiedDate		String		
errors		List of ErrorModel		
links		List of Link		

3.18. ContextTypeItem

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
workflowIdentifier		String		

3.19. ContextTypeItemModel

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
workflowIdentifier		String		

3.20. ContextTypeRepresentation

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
workflow		IdentifierModel		
color		String		
fields		List of IdentifierModel		

Field Name	Required	Type	Description	Format
links		List of Link		

3.21. *CursorPagedResourcesContextChange*

Field Name	Required	Type	Description	Format
content		List of ContextChange		
nextPage		String		

3.22. *Data*

Field Name	Required	Type	Description	Format
type		String		Enum: DATA_REFERENCE, STRING_ARRAY, NUMERIC, STRING,
value		Object		

3.23. *DataReferenceData*

Field Name	Required	Type	Description	Format
type		String		Enum: DATA_REFERENCE, STRING_ARRAY, NUMERIC, STRING,
value		String		

3.24. *DataReferenceDataAllOf*

Field Name	Required	Type	Description	Format
value		String		

3.25. *DatasourceModel*

Field Name	Required	Type	Description	Format
type	X	String		
name	X	String		
description		String		
connectorId		UUID		uuid
connectionProperties		String		
maxConnections		Integer		int32
onlySupportsRawValues		Boolean		
maxPlotPeriodInDays		Integer		int32
capabilityTypes		Set of [string]		
providerTypeProperties		Set of ProviderTypePropertyModel		

3.26. *DatasourceRepresentation*

Field Name	Required	Type	Description	Format
type		String		
name		String		
description		String		
connectionProperties		String		
maxConnections		Integer		int32
onlySupportsRawValues		Boolean		

Field Name	Required	Type	Description	Format
status		String		<i>Enum:</i> ACTIVE, DELETED, SYNC_IN_PROGRESS, SYNC_ERROR, NOT_SYNCABLE,
statusDescription		String		
syncedBy		String		
syncedOn		Date		date-time
createdBy		String		
createOn		Date		date-time
modifiedBy		String		
modifiedOn		Date		date-time
indexingGranularity		String		
maxPlotPeriodInDays		Integer		int32
capabilityTypes		Set of [string]		<i>Enum:</i>
connectorId		UUID		uuid
providerTypeProperties		Set of ProviderTypePropertyRepresentation		
builtin		Boolean		
datasourceId		UUID		uuid
links		List of Link		

3.27. Dependency

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
externalIdentifier		String		

Field Name	Required	Type	Description	Format
datasourceIdentifier		UUID		uuid
datasourceType		String		
dependents		List of Dependency		
dependencies		List of Dependency		

3.28. *DropDownOption*

Field Name	Required	Type	Description	Format
key		String		
value		String		

3.29. *Error*

Field Name	Required	Type	Description	Format
type		String		
key		String		
message		String		

3.30. *ErrorModel*

Field Name	Required	Type	Description	Format
type		String		
key		String		
message		String		

3.31. *Event*

Field Name	Required	Type	Description	Format
identifier		String		
occurred		String		
state		String		

3.32. EventModel

Field Name	Required	Type	Description	Format
identifier		String		
occurred		String		
state		String		

3.33. FieldRepresentation

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
type		String		
placeholder		String		
options		List of [string]		
links		List of Link		

3.34. HistorianDetailsModel

Field Name	Required	Type	Description	Format
dbId		String		
name		String		
server		String		

3.35. IdentifierModel

Field Name	Required	Type	Description	Format
identifier		String		

3.36. ImportedTimeSeriesRepresentation

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
name		String		
description		String		

Field Name	Required	Type	Description	Format
unitOfMeasurement		String		
timeSeriesType		String		Enum: ANALOG, DIGITAL, DISCRETE, STRING,
createOn		Date		date-time
links		List of Link		

3.37. IndexHorizonRepresentation

Field Name	Required	Type	Description	Format
links		List of Link		
horizon		Date		date-time

3.38. LegacyAccessibilityModel

Field Name	Required	Type	Description	Format
accessibility		String		Enum: accessible, denied, deleted, undefined,

3.39. LegacyStateModel

Field Name	Required	Type	Description	Format
Name		String		
Code		Integer		int32
Offset		Integer		int32

3.40. *LegacyTagDetailsModel*

Field Name	Required	Type	Description	Format
id		String		
name		String		
description		String		
interpolationType		String		
units		String		
source		String		
startDate		Date		date-time
endDate		Date		date-time
deleted		Boolean		
capabilities		CapabilitiesModel		
historian		HistorianDetailsModel		
Type		String		
States		List of LegacyStateModel		
type		String		
Name		String		
TagName		String		

3.41. *Link*

Field Name	Required	Type	Description	Format
rel		String		
href		String		
hreflang		String		
media		String		
title		String		
type		String		
deprecation		String		
profile		String		
name		String		

3.42. *NotImportedTimeSeries*

Field Name	Required	Type	Description	Format
tagName		String		
reason		String		
details		Map of [string]		

3.43. *NumericData*

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> DATA_REFERENCE, STRING_ARRAY, NUMERIC, STRING,
value		BigDecimal		

3.44. *NumericDataAllOf*

Field Name	Required	Type	Description	Format
value		BigDecimal		

3.45. *PageMetadata*

Field Name	Required	Type	Description	Format
size		Long		int64
totalElements		Long		int64
totalPages		Long		int64
number		Long		int64

3.46. *PagedModelConfigurationItemRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of ConfigurationItemRepresentation		
page		PageMetadata		

3.47. *PagedModelConnectorRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of ConnectorRepresentation		
page		PageMetadata		

3.48. *PagedModelContextItemRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of ContextItemRepresentation		
page		PageMetadata		

3.49. *PagedModelContextTypeRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of ContextTypeRepresentation		
page		PageMetadata		

3.50. *PagedModelDatasourceRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of DatasourceRepresentation		
page		PageMetadata		

3.51. *PagedModelFieldRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of FieldRepresentation		
page		PageMetadata		

3.52. *PagedModelImportedTimeSeriesRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of ImportedTimeSeriesRepresentation		
page		PageMetadata		

3.53. *PagedModelTimeSeriesDefinitionRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of TimeSeriesDefinitionRepresentation		
page		PageMetadata		

3.54. *PagedModelTimeSeriesRelationRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of TimeSeriesRelationRepresentation		
page		PageMetadata		

3.55.

PagedModelTimeSeriesValueMappingRepresentation

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of TimeSeriesValueMappingRepresentation		
page		PageMetadata		

3.56. *PagedModelWorkflowRepresentation*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of WorkflowRepresentation		
page		PageMetadata		

3.57. *ProviderMetaDataReaderRepresentation*

Field Name	Required	Type	Description	Format
name		String		
label		String		
experimental		Boolean		
connectors		List of [string]		
capabilities		Set of [string]		<i>Enum:</i>

Field Name	Required	Type	Description	Format
properties		List of CapabilityProperty		
links		List of Link		

3.58. *ProviderTypePropertyModel*

Field Name	Required	Type	Description	Format
name	X	String		
value		String		
encrypted		Boolean		

3.59. *ProviderTypePropertyRepresentation*

Field Name	Required	Type	Description	Format
name		String		
value		String		
encrypted		Boolean		
links		List of Link		

3.60. *RsqlRequest*

Field Name	Required	Type	Description	Format
query	X	String		

3.61. *StringArrayData*

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> DATA_REFERENCE, STRING_ARRAY, NUMERIC, STRING,
value		List of [string]		

3.62. *StringArrayDataAllOf*

Field Name	Required	Type	Description	Format
value		List of [string]		

3.63. *StringData*

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> DATA_REFERENCE, STRING_ARRAY, NUMERIC, STRING,
value		String		

3.64. *Template*

Field Name	Required	Type	Description	Format
identifier		String		
name		String		

3.65. *TimeSeriesDefinitionModel*

Field Name	Required	Type	Description	Format
id		UUID		uuid
datasourceId	X	UUID		uuid
externalId		String		
name	X	String		
description		String		

Field Name	Required	Type	Description	Format
type	X	String		Enum: ANALOG, DIGITAL, DISCRETE, STRING,
dependentTimeSeriesDefinitions		List of UUID		uuid

3.66. *TimeSeriesDefinitionRepresentation*

Field Name	Required	Type	Description	Format
datasourceId		UUID		uuid
ownerId		String		
externalId		String		
name		String		
description		String		
type		String		
units		String		
interpolationType		String		
deleted		Boolean		
plotDataUrl		String		
indexDataUrl		String		
links		List of Link		
id		UUID		uuid

3.67. *TimeSeriesDependencyTreeDefinitionRepresentation*

Field Name	Required	Type	Description	Format
dependents		List of Dependency		
dependencies		List of Dependency		
links		List of Link		

3.68. *TimeSeriesRelationRepresentation*

Field Name	Required	Type	Description	Format
timeSeriesId		UUID		uuid
timeSeriesExternalId		String		
timeSeriesDataSourceId		UUID		uuid
relationTimeSeriesId		UUID		uuid
relationTimeSeriesExternalId		String		
relationTimeSeriesDataSourceId		UUID		uuid
links		List of Link		

3.69. TimeSeriesValueMappingRepresentation

Field Name	Required	Type	Description	Format
timeSeriesId		UUID		uuid
stringValue		String		
intValue		Integer		int32
links		List of Link		

3.70. VersionInfo

Field Name	Required	Type	Description	Format
version		String		

3.71. WorkflowRepresentation

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
startState		String		
endState		String		
states		List of [string]		
links		List of Link		

