

Context API

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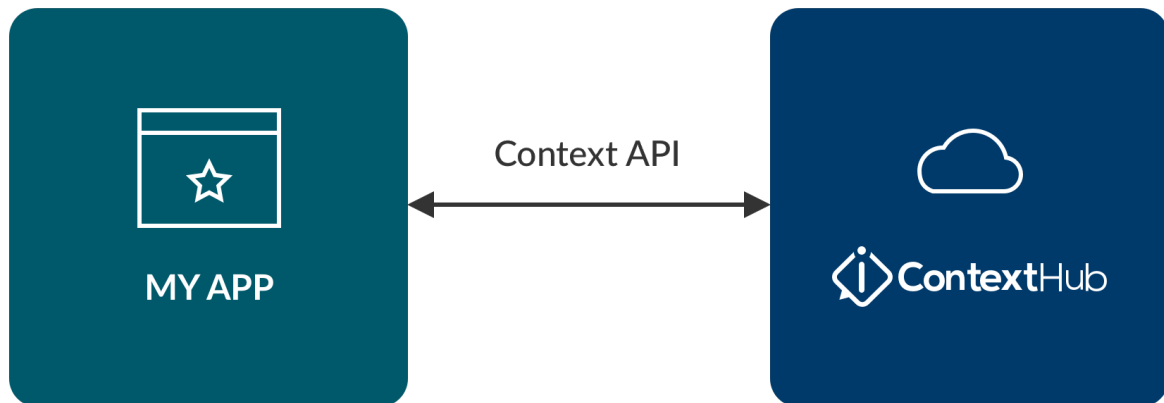
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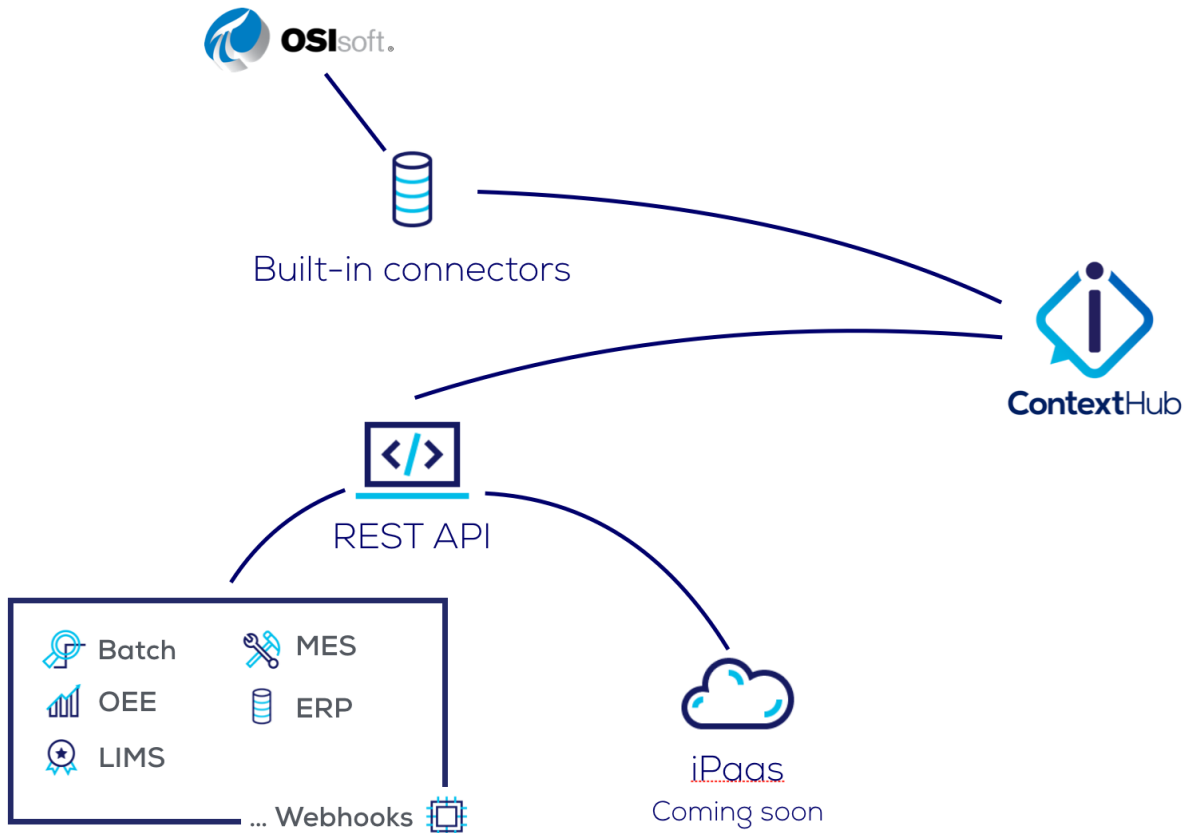
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Based on simple REST principles, the TrendMiner Context API endpoints return JSON metadata about context items, types, and other related objects in the TrendMiner platform.



Chapter 1. Introduction

1.1. Infrastructure



Context can be pulled into the TrendMiner platform through multiple pathways. One is the REST API described in the developer documentation here. The other is by hooking TrendMiner to your iPaas system.

ContextHub supports the contextualization of tags, assets and attributes, or, components as we call them in general. All information is contained within an entity called a context item. Which makes the `/item` endpoint the main endpoint to create and search for context in the platform.

1.2. Requests

The TrendMiner Web API is based on REST principles. Data resources are accessed via standard HTTPS requests in UTF-8 format to an API endpoint. Where possible, the web API uses appropriate HTTP verbs for each action:

Table 1. REST

Method	Action
GET	Retrieves resources
POST	Creates resources
PUT	Changes and/or replaces resources or collections

Method	Action
DELETE	Deletes resources

1.3. Responses

The web API returns all response data as a JSON object. Have a look at the definitions for a description of all retrievable objects.

1.4. Timestamps

Timestamps are returned in [ISO 8601](#) format as [Coordinated Universal Time \(UTC\)](#) with a zero offset: YYYY-MM-DDTHH:MM:SSZ.

- 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.

2.3. Doing a request with an access token

Example request with access token

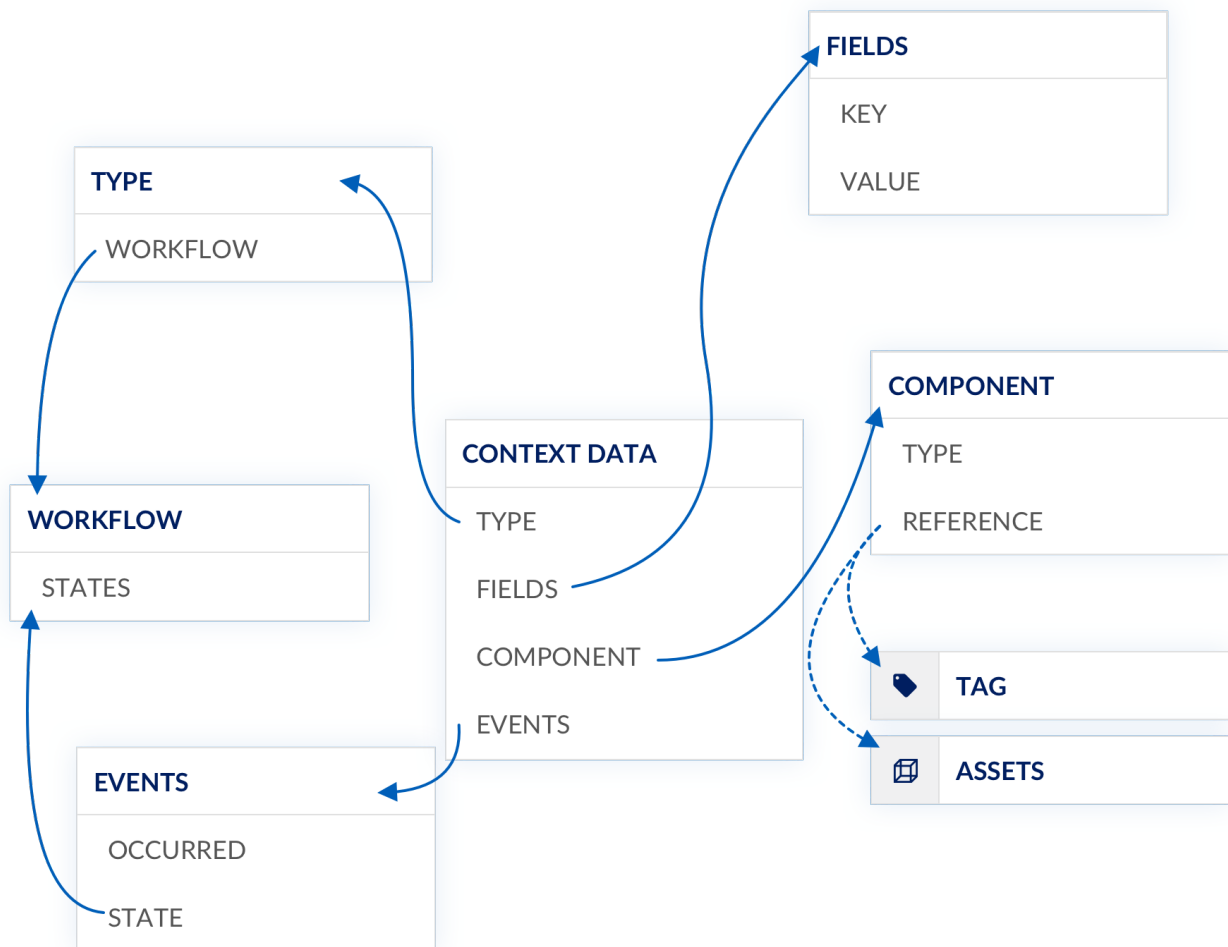
```
curl --request GET \  
  --url 'https://YOUR_DOMAIN/context/item/d0a58479-4120-4683-a143-42f5e7ac249e' \  
  --header 'Authorization: Bearer ACCESS_TOKEN'
```

Chapter 3. Creating context items

Creating context items can be done in two distinct ways:

- using the [Context Item API](#), to create an item, its events and its component in one request,
- using the [Context Data API](#), to create an item, while additional requests to other APIs are needed for events and component.

This section will focus on the first, and will explain the necessary parts needed to fire your request.



To create a context item, three mandatory parts need to be provided:

- the type of the context item, which needs to exist up front,
- at least one event, which is defined by the used type,
- a component on which this item occurs.

3.1. Mandatory information

3.1.1. Type and workflows

A type indicates what kind of context item we're dealing with. To create a context item, the type already needs to exist. It can be created using the type API or using ContextHub.

Every type can be assigned a workflow. A workflow dictates the different phases a context item of a certain type can go through, from start to completion.

In case a context item is created using a type that is not assigned a workflow, the context item will be considered instantaneous and can only have one stateless event.

TIP For more detailed information on the API, see [Type](#) and [Workflow](#).

By default, TrendMiner has a few predefined types and workflow. Examples are

- **ANOMALY** with states **Started** and **Ended**,
- **INFORMATION** without workflow,
- **OPERATIONAL** with states **In progress**, **Paused**, and **Ended**.

3.1.2. Events

An event is the occurrence of a notable *thing*—event, action, incident, ...—and refers to a specific point in time.

In case the type of the context item is assigned a workflow, the events on the context item need to have a state. In this case, the earliest occurring event's state must be the start event, as defined in the workflow. When assigning an event state which is the workflow's end state, this event must reflect the latest time the workflow operates.

Regardless of the type, an event needs to be sent.

3.1.3. Component

A component is the reference to a tag, asset or attribute. Since context items are all about contextualizing these, a component is mandatory.

Because tags or assets and attributes are not part of the context domain, we need identify them within their own respective domains.

Tags

Tags are mainly used when there is no asset framework available to structure tags in a logical tree. The identifier to be used during context item creation is the name of the tag.

Assets & attributes

Assets and attributes are used to create a logical structure. While an asset is purely a virtual concept, an attribute will internally link to a tag. Assets can be found using the [Assets API](#). The identifier to be used during context item creation is the **nodeId**.

3.2. Additional information

Besides the mandatory parts for creating context items, additional information can be added to the item to provide more details.

A description can be used to give more information on the event. Any text can be written here. Next to a description, keywords and additional fields can be provided as well.

3.2.1. Keywords

Keywords are used to make searching on context items easier.

Context items can contain as many keywords as needed, as long as they are shorter than 100 characters and do not contain commas.

3.2.2. Fields & other properties

Fields and properties can contain any data to further describe a context item. While their purpose is the same, there is a small distinction.

Fields are properties with a predefined data type. A field's type can be either **STRING**, **NUMERIC** or **ENUMERATION**. The latter can have predefined values. More advanced searching capabilities are available when using fields.

Fields are created independently of context item types, and are linked to them through ContextHub. In ContextHub, when creating or editing context items, fields can be modified as well. To find out which fields are used on a type, use the [Type API](#).

Other properties are properties without a predefined data type. When present on a context item, they will be shown in ContextHub. They are however not editable through ContextHub, only through the API.

Both fields and other properties need to be filled in the **fields** part of the request body in a **"key": "value"** manner.

3.3. Examples

All these parts need to be combined to create a new context item. For detailed information, refer to the [Context Item API](#) or the [Context Data API](#).

TIP

For more detailed information on building context items without using the context item API, see [Context Data API](#), [Context Data Event API](#) and [Context Data Reference API](#).

Example: Creating a context item with a workflow referencing a tag

```
POST https://trendminer.company.net/context/item HTTP/1.1
```

```
Content-Type: application/json
```

```
{
  "description": "Elevated temperature detected",
  "keywords": [
    "temperature"
  ],
  "type": {
    "identifier": "ANOMALY"
  },
  "components": [
    {
      "type": "TAG",
      "reference": "BA:LEVEL.1"
    }
  ],
  "fields": {
    "criticality": "HIGH",
    "temperature": 87.2
  },
  "events": [
    {
      "state": "Started",
      "occurred": "2019-11-14T08:31:58.000Z"
    }
  ]
}
```

Example: Creating a context item without workflow with bare minimum data provided

```
POST https://trendminer.company.net/context/item HTTP/1.1
```

```
Content-Type: application/json
```

```
{
  "type": {
    "identifier": "INFORMATION"
  },
  "components": [
    {
      "type": "ASSET",
      "reference": "8397fef9-ad29-4ee5-bf04-72a11c0b233c"
    }
  ],
  "events": [
    {
      "occurred": "2019-11-13T13:55:07.000Z"
    }
  ]
}
```

Chapter 4. Context item search

Context items can be searched using the API's paged search endpoint. The search endpoint will always need at least one filter to limit the timeframe to look at.

4.1. Version 1

WARNING | Version 1 of the search endpoint is deprecated. Please use version 2.

The version 1 search endpoint is a paged API. The response will include a metadata block with the current page information.

Search endpoint version 1

```
POST /context/item/search?page=0&size=20
```

Example: A version 1 search request body using multiple filters.

```
{
  "filters": {
    {
      "periodType": "LAST_EIGHT_HOURS",
      "period": "PT8H",
      "live": false,
      "type": "PERIOD_FILTER"
    },
    {
      "type": "COMPONENT_FILTER"
      "components": [
        {
          "identifier": "e56b9148-b109-4495-9e84-9cbf866201bc",
          "type": "ASSET",
          "path": "e56b9148b10944959e849cbf866201bc",
          "include": "SELF"
        }
      ]
    }
  }
}
```

Example: A version 1 search response.

```
{
  "links": [...],
  "content": [
    {
      "permissions": [
        "ASSET_READ_CONTEXT_ITEM"
      ]
    }
  ]
}
```

```

    ],
    "identifier": "de04ed72-f135-400a-bc11-65104e8c7998",
    "shortKey": "901-C6",
    "externalId": "dc165337-5e6e-11ec-8a12-000d3ac26207",
    "description": "Something happened here.",
    "events": [
      {
        "identifier": "1d4f153e-3342-4c1a-ac47-6deed0152422",
        "occurred": "2021-12-16T12:51:00Z",
        "state": "Started",
        "links": [...]
      }
    ],
    "lastModifiedDate": "2022-05-09T02:00:03.454513Z",
    "createdBy": "833af9d7-b2fc-40a6-bb38-08a5d2ced6ca",
    "createdDate": "2021-12-16T12:54:29.640088Z",
    "userDetails": {
      "identifier": "833af9d7-b2fc-40a6-bb38-08a5d2ced6ca",
      "username": "service-account-tm-context"
    },
    "components": [],
    "type": {
      "identifier": "6e77cfbc876f4b4aae8ec2372f7bdd0f",
      "name": "PI Event Frame",
      ...
      "color": "4A75E2",
      "icon": "flow--line"
    },
    "workFlowDescribed": true,
    "fields": {
      "tm_EF_SYNC_MISSING_DATA_REFERENCE": true,
      "tm_EF_SYNC_MISSING_DATA_REFERENCE_RETRIES": 130,
      "EVENT_FRAME_NAME": "EF20211216-001"
    },
    "keywords": [],
    "startEventDate": "2021-12-16T12:51:00Z",
    "lastEventState": "Started",
    "totalDuration": "PT3450H54M32S",
    "links": [...]
  },
  ...
],
"page": {
  "size": 20,
  "totalElements": 697,
  "totalPages": 35,
  "number": 0
}
}

```


- the description filter
- the keyword filter
- the created by filter
- the custom field or other property filter
- the approvals filter
- the duration filter
- the current state filter

Each of these filters require their own input data.

To specify a more precise search query, the filters can be combined. Combining filters will return only those context items that match the criteria of every specified filter.

4.4. Period and interval filter

The period filter creates a moving window of time, starting from the current time, and going back a predefined portion of time.

Table 2. Period options

Key	Description
LAST_HOUR	1 hour
LAST_TWO_HOURS	2 hours
LAST_EIGHT_HOURS	8 hours
LAST_DAY	1 day
LAST_WEEK	7 days
LAST_FOUR_WEEKS	28 days

WARNING

The `periodType` field on the period filter is deprecated and its use should be avoided. It can be removed in one of the upcoming releases.

The `periodType` field has been replaced with the more versatile `period` field. This field accepts a period (duration) in ISO8601 format. The below table gives a mapping from the old `periodType` value to its corresponding ISO8601 value. .Period ISO8601 examples

Period type	Period
LAST_HOUR	PT1H
LAST_TWO_HOURS	PT2H
LAST_EIGHT_HOURS	PT8H
LAST_DAY	P1D
LAST_WEEK	P7D
LAST_FOUR_WEEKS	P30D

The general format for durations to adhere to is `PnYnMnDTnHnMnS`, in which `n` can be any number.

Every 'unit' with a zero value can be omitted.

When using the period filter, one also has the option to have item be sent back as they are created. To do so, the **live** flag needs to be set.

Example: Period filter searching the last 8 hours

```
{
  "type": "PERIOD_FILTER",
  "periodType": "LAST_EIGHT_HOURS",
  "live": false
}
```

Alternatively, when searching for a pre-defined time frame, the interval filter can be used to specify the range, using start and end date. Use the ISO date format in UTC timezone to specify the dates.

Example: Interval filter searching pre-defined time frame

```
{
  "type": "INTERVAL_FILTER",
  "startDate": "2019-08-01T22:00:00.000Z",
  "endDate": "2019-08-02T21:59:00.000Z"
}
```

4.5. Type filter

The type filter can be used to return only those context items of the specified types. The filter accepts a list of type identifiers.

Example: Type filter search for context items of type ANOMALY or INFORMATION

```
{
  "type": "TYPE_FILTER",
  "types": [
    "ANOMALY",
    "INFORMATION"
  ]
}
```

4.6. Component filter

The component filter is used to limit the results to context items linked to a certain asset, attribute or tag. Multiple components can be specified.

When searching for tags, the identifier to specify is the tag's name or its UUID. The UUID can be found from querying tm-datasource timeseries API.

For assets and attributes, it is also possible to search for context items linked to certain assets or

attributes, or any of the components in the tree above the specified one. When doing so, specifying the path to the current asset or attribute is required. This path can be found on the structure resource of the node. Check out the [Assets API](#) for more information on structures, nodes and paths.

When searching for context items created on specific assets or attributes, it is sufficient to provide the `nodeId`. However, it is also possible to search for context items that are created on the parents or children of an asset or attribute. To do this, we need to provide the filter with the path information and the relative type. This path can be found on the node resource. Check out the [Assets API](#) for more information on nodes and paths

Relative types

```
SELF: Only include the node. DEFAULT
ANCESTORS: Include context items created on the node and on its parents. PATH is
required
DESCENDANTS: Include context items created on the node and on all of its children.
PATH is required
```

Example: Component filter search for a specified attribute and its descendants

```
{
  "type": "COMPONENT_FILTER",
  "components": [
    {
      "identifier": "51f0d710-246f-4a89-9264-25df45df53e0",
      "type": "ATTRIBUTE",
      "path": "64dc37890dd147629bd1151a6b0729cd.51f0d710246f4a89926425df45df53e0",
      "include": "DESCENDANTS"
    }
  ]
}
```

4.7. Description filter

Searching for certain words or phrases in the description of context items is possible using the description filter. The filter allows for specifying multiple words to look for. Wildcards can be used as well: an asterisk (*) will match zero to any range of characters.

*Example: Description filter matching items containing the words 'clogged' or 'phase *.b', having * match anything*

```
{
  "type": "DESCRIPTION_FILTER",
  "values": [
    "clogged",
    "phase *.b"
  ],
}
```

4.8. Keyword filter

Upon creating of a context item, keywords can be specified. Using the keyword filter, searching can be limited to items having the provided keywords. Multiple keywords can be specified.

Example: Keyword filter matching items having the keyword 'overflow'

```
{
  "type": "KEYWORD_FILTER",
  "keywords": [
    "overflow"
  ]
}
```

4.9. Created by filter

Using the created by filter, only context items created by the specified users are returned. Multiple users can be specified.

To specify the users, use their identifiers.

Example: Created by filter matching items created by the specified user

```
{
  "type": "CREATED_BY_FILTER",
  "users": [
    "ea02ab87-ebbf-4f7b-af6d-8dfffd819abe0"
  ]
}
```

4.10. Custom field and other property filter

As there are three different types of custom field, there are also three different types of custom field filter: numeric, string and enumeration. The custom field filter can only be used on existing custom fields. The value for `field` needs to be the identifier of the custom field. Specifying a custom field that does not exist will result in an error.

4.10.1. Numeric field filter

The numeric field filter searches for context items having the specified custom field filled in with a number matching the specified criteria. These criteria are simple mathematical conditions:

Table 3. Condition operators

Operator	Description
<code>EQUAL</code>	item value = specified value
<code>NOT_EQUAL</code>	item value != specified value

LESS_THAN	item value < specified value
LESS_THAN_OR_EQUAL	item value ≤ specified value
GREATER_THAN	item value > specified value
GREATER_THAN_OR_EQUAL	item value ≥ specified value

One can specify up to two conditions.

Example: Numeric field filter searching for items with field 'loss_value' greater than or equal to 12

```
{
  "type": "NUMERIC_FIELD_FILTER",
  "field": "loss_value",
  "conditions": [
    {
      "operator": "GREATER_THAN_OR_EQUAL",
      "value": 12
    }
  ]
}
```

4.10.2. String field filter

The string field filter searches for context items having the specified custom field filled in with a string value matching the specified value. String matching is done in the same way as the [description filter](#). Multiple values can be specified.

Example: String field filter searching for items with field 'client' matching any word starting with 'Trend'

```
{
  "type": "STRING_FIELD_FILTER",
  "field": "client",
  "values": [
    "Trend*"
  ]
}
```

4.10.3. Enumeration field filter

The enumeration field filter searches for context items having the specified custom field filled in with the one of the specified values. These values need to be present in the custom field's definition. Specifying a value that does not exist in the custom field definition will result in error.

Example: Enumeration field filter searching for items with field 'cause' being either 'Human error' or 'Late maintenance'

```
{
  "type": "ENUMERATION_FIELD_FILTER",
  "field": "cause",
  "values": [
    "Human error",
    "Late maintenance"
  ]
}
```

4.10.4. Other property filter

Other properties on a context item can be present when a sync puts them there or when using the API. These properties can have names or values not defined as custom field. To search on these properties, the other properties filter can be used. This filter will perform string matches in the same way as the [description filter](#). Multiple values can be specified.

The key to specify is the actual property's name.

Example: Other property filter searching for items with property color having values matching 'brown' or 'green'

```
{
  "type": "PROPERTY_FIELD_FILTER",
  "key": "color",
  "values": [
    "brown",
    "green"
  ]
}
```

4.11. Approval filter

When approvals are enabled on context item types, users can mark a context item as approved to demonstrate acknowledgement. Using the approval filter, we can specify if we want to see context items either approved or not.

Example: Approval filter searching for unapproved context items

```
{
  "type": "APPROVAL_FILTER",
  "withApprovals": false
}
```

4.12. Duration filter

Context items with types that are assigned a workflow have a duration. The duration is calculated from initiation of the start event until the occurrence of an end event, or, in case there is none yet, until now. Using the duration filter, we can apply a simple mathematical operator when searching for context items that have a duration. See also [Condition operators](#).

Duration is provided in standard ISO Duration format

Example: Duration filter searching for context items longer than one and a half hours

```
{
  "type": "DURATION_FILTER",
  "conditions": [
    {
      "operator": "GREATER_THAN",
      "value": "PT1H30M"
    }
  ]
}
```

4.13. Current state filter

Context items with types that are assigned a workflow, are locked into a specific state at any time. Using the current state filter, we can search for context items of any specified state.

Example: Current state filter searching for item state "In progress"

```
{
  "type": "CURRENT_STATE_FILTER",
  "states": [
    "In progress"
  ]
}
```

4.14. Combining filters

The request model for searches allows for combining any of the filters above. A search will only return context items that match all filters.

Example: Different filters combined in a search request body.

```
{
  "filters": [
    {
      "type": "PERIOD_FILTER",
      "periodType": "LAST_EIGHT_HOURS",
      "live": false
    },
    {
      "type": "CREATED_BY_FILTER",
      "users": [
        "ea02ab87-ebbf-4f7b-af6d-8dff819abe0"
      ]
    },
    {
      "type": "NUMERIC_FIELD_FILTER",
      "field": "loss_value",
      "conditions": [
        {
          "operator": "GREATER_THAN_OR_EQUAL",
          "value": 12
        }
      ]
    }
  ]
}
```


Chapter 5. Reactive Search endpoints

The Context API has two reactive endpoints:

- a websocket using STOMP,
- a minimal search streaming endpoint.

In contrast with the regular paged search API, items for which the user does not have the required permissions are not returned in the results

Both of these searches have some optional configuration:

Table 4. Configuration on the `ReactiveSearchRequestModel` for both the `websocket` and `minimalSearch`

Parameter name	Default value	Description
<code>limit</code>	unlimited	Maximum number of context items you want to receive.
<code>bufferSize</code>	200	Maximum number of context items per message. Messages are pushed after 1 second in case the buffer is not full.
<code>delay</code>	0	Delay in milliseconds between two data pushes.

5.1. Minimal Search

The minimal search endpoint returns only the context item's identifier, the component it is linked to and its start and end date.

A request sent to the minimal search endpoint will return a stream.

5.2. Websocket

When the same level of detail in context items as in a regular HTTP search is required, the websocket approach can be used. The Context API's websocket uses the Simple Text Orientated Messaging Protocol, in short STOMP.

Using the websocket, it's possible to setup a live search. Live searches will return context items in scope as soon as they are created, for as long as the websocket is open.

For more information on how to use the websocket using STOMP, please visit the [STOMP specification](#).

5.2.1. Channels

The websocket provides three channels:

Channel	Description
/queue/searchresults/	Returns the context items. Messages contain lists of <code>ContextItemResource</code> 's with a maximum item count of <code>bufferSize</code> .
/queue/searcherrors/	Returns errors in case any occur.
/queue/searchfeedback/	Returns feedback if needed. Context will send a <code>NO_MORE_DATA</code> message when there is no more data available. Only in live mode newly created data will still be pushed.

Chapter 6. Loading a context view

A context item view consistent of a set of filters that are used to search context items, the type of the view and additional options depending on the view type. This section describes the steps to load the data produced by a context view using the API.

6.1. Getting the view

Context views are saved in the work-organiser. Use the work-organiser API to get the saved item, which will contain the identifier of the context view.

6.2. Enriching the view

The saved view in work-organiser still needs to be enriched with additional data before it is usable. An example of this is that only the identifier of a type in a type filter is saved, rather than the entire object including its name and description. The enrichment will also validate the filters, as certain objects could have been removed.

TIP For more detailed information on the API, see [Context View](#).

6.2.1. Filter validation

When calling the enrich endpoint the views filters will be validated. Filters that are invalid will be marked with a flag `"valid": false`.

Prior to calling the search endpoint with the retrieved filter data, any filter issues should be resolved. Calling the search end point with invalid filters will result in a **400 Bad Request**.

6.3. Performing the search

After enrichment and validation of the filter a search can be triggered to return the data for this view. This can be done in two ways:

- using the paged API,
- using a reactive streaming endpoint.

TIP For more detailed information on the API, see [Context Item](#).

6.3.1. Paged search API

This end point performs a search with the provided filters and returns a list of results. These results can contain "redacted" results, meaning if there are context items for which the requester does not have the required permissions to view, they will not contain all the data. More information about searching can be found in the context item search section and in the context item section.

6.3.2. Reactive endpoints

See the section about reactive endpoints for more search options.

Chapter 7. Context type access rules

Each context type has its own set of access rules, which determines what users can do with that context type. An access rules consist of

- a list of permissions, which describes what can be done,
- a subject, which defines who the access rule will apply to.

There are 3 different permissions:

CONTEXT_TYPE_READ	user can read context items of this type
CONTEXT_TYPE_WRITE	user can create and modify context items of this type
CONTEXT_TYPE_DELETE	user can delete context items of this type

For the sake of readability, going forward the prefix CONTEXT_TYPE_ will be omitted.

In the current release, the **READ** permission is not enforced, though it is highly recommended already giving users this permission when defining access rules with higher levels of control.

The above permissions can be granted to subjects, the subject types:

GUEST	unauthenticated users
EVERYONE	all authenticated users
GROUP	all users in a given group
USER	a given user

In the current release, the subject types **GUEST** and **GROUP** cannot be used yet.

When defining an access rule on a type, a combination of a subject and a set of permissions needs to be provided. When using the **USER** subject type, a user id also needs to be provided.

TIP For more detailed information on the API, see [Access Rules](#).

7.1. Subject type priorities

Access rules are prioritized by subject type, meaning an access rule defined on **USER** has precedence over an access rule defined on **EVERYONE** (and so on when the other subject types will be implemented).

Example 1. Access rules priorities

The following access rules exist:

- permissions **READ**, **WRITE** and **DELETE** on type ANOMALY for subject type **EVERYONE**,
- permissions **READ** and **WRITE** on type ANOMALY for subject type **USER** for user Bob.

This will result in Bob having the permissions **READ** and **WRITE** for that type, while other users also have the **DELETE** permission.

When a new context type is created, a new access rule with subject type **EVERYONE** and permissions **READ** and **WRITE** is automatically created.

NOTE | Users with administrator rights will always have all possible permissions available.

Chapter 8. Context item approvals

Approvals can be set on any context item for which approvals are enabled on its type.

A user can add an approval on a context item and delete said approval as often as needed, though only one approval per user per context item is possible at the same time. An approval will only be valid as long as certain properties of the context item do not change.

Changes (either using ContextHub or the API) that will remove all approvals from a context item include:

- updating the description,
- adding, updating or removing a keyword,
- adding, updating or removing an event,
- updating values for custom fields or other properties,
- and adding or removing an attachment.

Comments do not affect approvals in any way.

Approvals can be enabled or disabled per context item type through ContextHub's config pages or using the type API.

TIP | For more detailed information on the API, see [Approvals](#).

Chapter 9. Context item attachments

To every context item for which the user has view and read permissions, attachments can be uploaded. For this, all mime-types and extensions are allowed. File size is limited to 20MB.

Updating the name, mine-type and extension after creation are only possible through the Context API.

NOTE | The attachments on context items are exported when a backup is created.

TIP | For more detailed information on the API, see [Attachments](#).

Chapter 10. Context item comments

Anyone with the permissions to read a certain context item can read all existing comments and add comments.

Modifying or removing own comments is always possible, and will not have an influence on potentially present approvals. Users with admin privileges can remove or modify any comment.

TIP | For more detailed information on the API, see [Comments](#).

Chapter 11. Context item history

A history of any changes made to tracked objects is kept on any context item for which history is enabled on its type.

Tracked objects on a context item are:

- the context item itself, its components and its events,
- attachments and comments,
- and approvals.

Creating new, updating, or removing any of the above tracked objects on a history enabled context item will be tracked. This trail can be read by anyone with access to the context item and contains amongst the type of object also the user making the changes, the before and after values, and the date when the changes occurred.

Audit trail can be enabled or disabled per context item type through ContextHub's config pages or using the type API.

TIP | For more detailed information on the API, see [History](#).

Chapter 12. Resources

12.1. AccessRules

12.1.1. Create new

POST /type/{typeId}/accessrule

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the ContextItem type.	String
Body required	TypeAccessRuleModel	The access rule model.	TypeAccessRuleModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	AccessRule
404	The resource was not found	AccessRule
201	Created	AccessRule

Produces

- application/json
- application/hal+json

12.1.2. Delete specific

DELETE /type/{typeId}/accessrule/{accessRuleId}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the ContextItem type.	String
Path required	accessRuleId	The identifier of the access rule.	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage

401	Unauthorized	
204	Deleted	
404	The resource was not found	

Produces

- application/json
- application/hal+json

12.1.3. Get specific

GET /type/{typeId}/accessrule/{accessRuleId}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the ContextItem type.	String
Path required	accessRuleId	The identifier of the access rule.	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	AccessRule
404	The resource was not found	AccessRule
200	OK	AccessRule

Produces

- application/json
- application/hal+json

12.1.4. Get all for type

GET /type/{typeId}/accessrule

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the ContextItem type.	String

Responses

HTTP Code	Description	Schema
-----------	-------------	--------

400	Validation failed	ErrorMessage
401	Unauthorized	List[AccessRule]
404	The resource was not found	List[AccessRule]
200	OK	List[AccessRule]

Produces

- application/json
- application/hal+json

12.1.5. Update specific

PUT /type/{typeId}/accessrule/{accessRuleId}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the ContextItem type.	String
Path required	accessRuleId	The identifier of the access rule.	String
Body required	TypeAccessRuleModel	The access rule model.	TypeAccessRuleModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	AccessRule
404	The resource was not found	AccessRule
201	Created	AccessRule

Produces

- application/json
- application/hal+json

12.2. Analytics

12.2.1. Get all available aggregation operations

GET /analytics/aggregations/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	Identifier of the field or name of the property	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	CollectionModelAggregationOperationRepresentationModel
404	No aggregations possible on this property or field	ErrorMessage
200	Ok	CollectionModelAggregationOperationRepresentationModel

Produces

- application/json
- application/hal+json

12.2.2. Calculate aggregations

POST /analytics/aggregations/{identifier}/aggregate

Parameters

Type	Name	Description	Schema
Path required	identifier	Identifier of the field or name of the property	String
Query required	aggregation	Name of the aggregation	
Body required	SearchRequestModel	Search request model	SearchRequestModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	CollectionModelAggregationResultRepresentationModel

404	One or more requested aggregations are not possible on this property or field	ErrorMessage
200	Ok	CollectionModelAggregationResultRepresentationModel

Produces

- application/json
- application/hal+json

12.3. Approvals

12.3.1. Add approval

POST /data/{contextItemId}/approval

Parameters

Type	Name	Description	Schema
Path required	contextItemId	The identifier of the ContextItem.	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Approval
404	EntityModel(s) not found!	ErrorMessage
403	No rights on this context item	Approval
201	Approved	Approval

Produces

- application/json
- application/hal+json

12.3.2. Get all for item

GET /data/{contextItemId}/approval

Parameters

Type	Name	Description	Schema
Path required	contextItemId	The identifier of the ContextItem.	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	List[Approval]
404	EntityModel(s) not found	ErrorMessage
403	No rights on this context item	List[Approval]
200	Ok	List[Approval]

Produces

- application/json
- application/hal+json

12.3.3. Revoke approval

DELETE /data/{contextItemId}/approval

Parameters

Type	Name	Description	Schema
<i>Path required</i>	contextItemId	The identifier of the ContextItem.	String

Responses

HTTP Code	Description	Schema
204	Revoked	
400	Validation failed	ErrorMessage
401	Unauthorized	
404	EntityModel(s) not found!	ErrorMessage
403	No rights on this context item	

Produces

- application/json
- application/hal+json

12.4. AssetType

12.4.1. Add types to collection for assets

PATCH /asset-type

Parameters

Type	Name	Description	Schema
Body <i>required</i>	AssetTypeModel	The model containing the types to add to given assets.	AssetTypeModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	String
204	No Content	String
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.4.2. Delete types from collection for assets

DELETE /asset-type

Parameters

Type	Name	Description	Schema
Body <i>required</i>	AssetTypeModel	The model containing the types to delete from given assets.	AssetTypeModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	String
204	No Content	String
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.4.3. Get types for assets

POST /asset-type

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.
[String]	Body <i>required</i>	AssetModel	

Responses

HTTP Code	Description	Schema
401	Unauthorized	AssetType
200	Ok	AssetType

Produces

- application/json
- application/hal+json

12.4.4. Update entire collection of types for assets

PUT /asset-type

Parameters

Type	Name	Description	Schema
Body <i>required</i>	AssetTypeModel	The model containing the type collection to set for given assets.	AssetTypeModel

Responses

HTTP Code	Description	Schema
-----------	-------------	--------

400	Validation failed	ErrorMessage
401	Unauthorized	String
204	No Content	String
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.5. Attachments

12.5.1. Create new

POST /data/{contextDataId}/attachments

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the context data for which the attachment is created.	String
Query <i>required</i>	name	The name of the attachment.	
Query <i>optional</i>	extension	The extension of the attachment.	
Query <i>optional</i>	type	The mimeType of the attachment.	

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Attachment
404	EntityModel(s) not found!	ErrorMessage
201	Created	Attachment
403	Forbidden!	ErrorMessage

Produces

- /

12.5.2. Delete specific

DELETE /data/{contextDataId}/attachments/{identifier}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data the attachment belongs to	String
Path required	identifier	The identifier of the attachment to be deleted.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
403	Forbidden	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.5.3. Download

GET /data/{contextDataId}/attachments/{identifier}/download

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data for which the attachment is created.	String
Path required	identifier	The identifier of the attachment.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
404	EntityModel(s) not found!	ErrorMessage
201	Created	
403	Forbidden!	ErrorMessage

Produces

- /

12.5.4. Get all for item

GET /data/{contextDataId}/attachments

Parameters

Type	Name	Description	Schema
<i>Path required</i>	contextDataId	The identifier of the context data to fetch all attachments from.	String
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
401	Unauthorized	PagedModelAttachment
404	EntityModel(s) not found!	ErrorMessage
200	Ok	PagedModelAttachment
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.5.5. Get specific

GET /data/{contextDataId}/attachments/{identifier}

Parameters

Type	Name	Description	Schema
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Path required	contextDataId	The identifier of the context data for which the attachment is created.	String
Path required	identifier	The identifier of the attachment.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	Attachment
404	EntityModel(s) not found!	ErrorMessage
201	Created	Attachment
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.5.6. Update specific

PUT /data/{contextDataId}/attachments/{identifier}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data the attachment belongs to	String
Path required	identifier	The identifier of the attachment to be updated.	String
Body required	AttachmentModel	The attachment model.	AttachmentModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	Attachment
403	Forbidden	Attachment
404	EntityModel(s) not found!	ErrorMessage
200	Ok	Attachment

Produces

- application/json

- application/hal+json

12.6. Comments

12.6.1. Create new coment on a context item

POST /data/{contextDataId}/comments

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data for which the comment is created.	String
Body required	CommentModel	The comment model.	<i>CommentModel</i>

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Comment
404	EntityModel(s) not found!	ErrorMessage
201	Created	Comment

Produces

- application/json
- application/hal+json

12.6.2. Delete specific

DELETE /data/{contextDataId}/comments/{identifier}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data the comment belongs to	String
Path required	identifier	The identifier of the comment to be deleted.	String

Responses

HTTP Code	Description	Schema
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401	Unauthorized	String
403	Forbidden	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.6.3. Get all comments for context item

GET /data/{contextDataId}/comments

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to fetch all comments from.	String
Query optional	page	Zero-based page index (0..N)	
Query optional	size	The size of the page to be returned	
Query optional	sort	Sorting criteria in the format: property(,asc	desc). Default sort order is ascending. Multiple sort criteria are supported.

Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelComment
404	EntityModel(s) not found!	ErrorMessage
200	Ok	PagedModelComment

Produces

- application/json
- application/hal+json

12.6.4. Get all comments for context items in bulk

POST /data/comments

Parameters

Type	Name	Description	Schema
Body <i>required</i>	IdListModel	object containing a list of context item identifiers	<i>IdListModel</i>

Responses

HTTP Code	Description	Schema
200	OK	Map[<i>Comment</i>]

Produces

- application/json
- application/hal+json

12.6.5. Get specific comment

GET /data/{contextDataId}/comments/{identifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the context data the comment belongs to	String
Path <i>required</i>	identifier	The identifier of the comment to be fetched.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	Comment
404	EntityModel(s) not found!	ErrorMessage
200	Ok	Comment

Produces

- application/json
- application/hal+json

12.6.6. Update specific

PUT /data/{contextDataId}/comments/{identifier}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data the comment belongs to	String
Path required	identifier	The identifier of the comment to be updated.	String
Body required	CommentModel	The updated comment model.	CommentModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Comment
403	Forbidden	Comment
200	Ok	Comment
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.7. ContextData

12.7.1. Create new context data

POST /data

Parameters

Type	Name	Description	Schema
Body required	ContextDataModel	The context data model.	ContextDataModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage

401	Unauthorized	ContextData
201	Created	ContextData
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.7.2. Delete specific context data

DELETE /data/{contextDataId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to be deleted.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.7.3. Get all context data

GET /data

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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
401	Unauthorized	PagedModelContextData
200	Ok	PagedModelContextData

Produces

- application/json
- application/hal+json

12.7.4. Get a specific context data

GET /data/{contextDataId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to be fetched.	String
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	

Responses

HTTP Code	Description	Schema
401	Unauthorized	ContextData
404	EntityModel(s) not found!	ErrorMessage
200	Ok	ContextData

Produces

- application/json
- application/hal+json

12.7.5. Search context data

GET /data/search

Parameters

Type	Name	Description	Schema
Query <i>required</i>	query	The search query	
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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
401	Unauthorized	PagedModelContextData
400	Bad Request	ErrorMessage
200	Ok	PagedModelContextData

Produces

- application/json
- application/hal+json

12.7.6. Update specific context data

PUT /data/{contextDataId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to be updated.	String

Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
Body <i>required</i>	ContextDataModel	The context data model.	ContextDataModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextData
200	Ok	ContextData
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.8. ContextDataEvent

12.8.1. Create new

POST /data/{contextDataId}/event

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the context data for which the event is created.	String
Body <i>required</i>	ContextEventModel	The event model.	ContextEventModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextEvent
404	EntityModel(s) not found!	ErrorMessage
201	Created	ContextEvent

Produces

- application/json
- application/hal+json

12.8.2. Delete specific

DELETE /data/{contextDataId}/event/{eventId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the event to be deleted.	String
Path required	eventId	The identifier of the event to delete	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.8.3. Get all for item

GET /data/{contextDataId}/event

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to fetch all events from.	String
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.
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Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelContextEvent
404	EntityModel(s) not found!	ErrorMessage
200	Ok	PagedModelContextEvent

Produces

- application/json
- application/hal+json

12.8.4. Get specific

GET /data/{contextDataId}/event/{eventId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the event to be fetched.	String
Path required	eventId	The identifier of the event to be fetched	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	ContextEvent
404	EntityModel(s) not found!	ErrorMessage
200	Ok	ContextEvent

Produces

- application/json
- application/hal+json

12.8.5. Update specific

PUT /data/{contextDataId}/event/{eventId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the event to be updated.	String
Path required	eventId	The identifier of the event that will be updated	String
Body required	ContextEventModel	The updated event model.	ContextEventModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextEvent
200	Ok	ContextEvent
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.9. ContextDataReference

12.9.1. Add a new context data reference to a context data

POST /data/{contextDataId}/reference

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data for which the data reference is created.	String
Query optional	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	

Body <i>required</i>	DataReferenceModel		<i>DataReference Model</i>
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Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	DataReference
404	EntityModel(s) not found!	ErrorMessage
201	Created	DataReference

Produces

- application/json
- application/hal+json

12.9.2. Delete specific

DELETE /data/{contextDataId}/reference/{referenceId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the reference to be deleted.	String
Path required	referenceId	The identifier of the data reference to be deleted.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
204	Deleted	String
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.9.3. Get all for context data references for a specific context data

GET /data/{contextDataId}/reference

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data to fetch all the data references from.	String
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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
401	Unauthorized	PagedModelDataReference
404	EntityModel(s) not found!	ErrorMessage
200	Ok	PagedModelDataReference

Produces

- application/json
- application/hal+json

12.9.4. Get specific

GET /data/{contextDataId}/reference/{referenceId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the reference to be fetched.	String
Path required	referenceId	The identifier of the data reference to be fetched.	String

Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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Responses

HTTP Code	Description	Schema
401	Unauthorized	DataReference
404	EntityModel(s) not found!	ErrorMessage
200	Ok	DataReference

Produces

- application/json
- application/hal+json

12.9.5. Update specific

PUT /data/{contextDataId}/reference/{referenceId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context data linked to the reference to be updated.	String
Path required	referenceId	The identifier of the data reference that will be updated.	String
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
Body <i>required</i>	DataReferenceModel		<i>DataReference Model</i>

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	DataReference
200	Ok	DataReference
404	The resource was not found!	ErrorMessage

Produces

- application/json

- application/hal+json

12.10. ContextItem

12.10.1. Create new

POST /item

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
Body <i>required</i>	ContextItemModel	The context item model	ContextItemModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextItem
201	Created	ContextItem
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.10.2. Create new in batch

POST /item/batch

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	async	Indicates if the create in bulk should run async	
Body <i>required</i>	ContextItemModel	Array of context item models to create in batch.	ContextItemModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	String
201	Created	String
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.10.3. Delete specific

DELETE /item/{contextDataId}

Parameters

Type	Name	Description	Schema
Path required	contextDataId	The identifier of the context item to delete	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.10.4. Delete bulk by definition

DELETE /item/batch/filters

Parameters

Type	Name	Description	Schema
Body required	BulkDeleteByFiltersModel	Model containing set of filters.	BulkDeleteByFiltersModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
202	Accepted: process is running in the background	String
403	Forbidden	String
404	EntityModel(s) not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.10.5. Delete bulk by identifiers

DELETE /item/batch

Parameters

Type	Name	Description	Schema
Body <i>required</i>	BulkDeleteByIdentifiersModel	Model containing list of identifiers.	BulkDeleteByIdentifiersModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	BulkDeleteResult
403	Forbidden	BulkDeleteResult
404	EntityModel(s) not found!	ErrorMessage
200	Ok	BulkDeleteResult

Produces

- application/json
- application/hal+json

12.10.6. Get specific

GET /item/{contextDataId}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the context item to be fetched.	String

Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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Responses

HTTP Code	Description	Schema
401	Unauthorized	ContextItem
404	EntityModel(s) not found!	ErrorMessage
200	Ok	ContextItem

Produces

- application/json
- application/hal+json

12.10.7. Search context items

POST `/item/search`

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	useTimeSeriesIdentifier		
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>	SearchRequestModel	Model containing the filter objects

Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelContextItem

400	Bad Request	ErrorMessage
200	Ok	PagedModelContextItem

Produces

- application/json
- application/hal+json

12.10.8. Minimal search (streaming)

POST /item/minimalSearch

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
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>	ReactiveSearchRequestModel	Model containing the filter objects.

Responses

HTTP Code	Description	Schema
200	OK	List[MinimalContextItem]
400	Bad Request	ErrorMessage
401	Unauthorized	

Produces

- application/stream+json
- application/json

12.10.9. Update specific

PUT /item/{contextDataId}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the context item that will be updated	String
Query <i>optional</i>	useTimeSeriesIdentifier	Indicates if time series identifier should be returned for tags references	
Body <i>required</i>	ContextItemModel	The updated context item model.	ContextItemModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextItem
200	Ok	ContextItem
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.11. ContextItemV2

12.11.1. Returns the number of items matching the provided filters.

POST /v2/item/search/count

Parameters

Type	Name	Description	Schema
Body <i>required</i>	SearchRequestModel	Model containing the filters	SearchRequestModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	CountRepresentationModel

400	Bad Request	ErrorMessage
200	Ok	CountRepresentationModel

Produces

- application/json

12.11.2. Search context items V2

POST /v2/item/search

Parameters

Type	Name	Description	Schema
Body <i>required</i>	CountIndependentSearchRequestModel	Model containing the filter objects and paging information	CountIndependentSearchRequestModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	TokenizedPageModelContextItem
400	Bad Request	ErrorMessage
200	Ok	TokenizedPageModelContextItem

Produces

- application/json

12.12. ContextView

12.12.1. Enrich a saved context view

GET /view/{identifier}/enriched

Parameters

Type	Name	Description	Schema
Path <i>required</i>	identifier	The identifier of the context view to be fetched.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	ContextView

404	EntityModel(s) not found!	ErrorMessage
200	Ok	ContextView

Produces

- application/json
- application/hal+json

12.13. DataImportController

12.13.1. Delete a file.

`DELETE /import/{id}`

Parameters

Type	Name	Description	Schema
Path required	id	The id of the file to delete.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
204	No content	

12.13.2. Download a file by id.

`GET /import/{id}/download`

Parameters

Type	Name	Description	Schema
Path required	id	The id of the file to download.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
404	Resource(s) not found!	
200	Ok	

12.13.3. Download the generated error file for a specific file.

`GET /import/{id}/errors`

Parameters

Type	Name	Description	Schema
Path required	id	The id of the file for which the error file should be retrieved.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
404	Resource(s) not found!	
200	Ok	

12.13.4. List all imported files.

GET /import

Parameters

Type	Name	Description	Schema
Query <i>required</i>	pageable		
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
401	Unauthorized	PageDataImport
200	Ok	PageDataImport

Produces

- /

12.13.5. Get a file.

GET /import/{id}

Parameters

Type	Name	Description	Schema
Path required	id	The id of the file to retrieve.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	DataImport
404	Resource(s) not found!	DataImport
200	Ok	DataImport

Produces

- /

12.13.6. Upload a file.

POST /import

Parameters

Type	Name	Description	Schema
Path required	name	The name of the file.	String
Path required	type	The type of the file.	String

Responses

HTTP Code	Description	Schema
200	OK	DataImport

Produces

- /

12.14. Export

12.14.1. Check existence

HEAD /export/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the export.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
204	No Content	
404	EntityModel not found	
410	Gone	

12.14.2. Remove all expired

DELETE /export/cleanup

Parameters

Type	Name	Description	Schema
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Responses

HTTP Code	Description	Schema
403	Forbidden	
204	Clean up is successful	

12.14.3. Create new

POST /export

Parameters

Type	Name	Description	Schema
Body required	ExportModel	The export creation model.	ExportModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	TaskSubmissionResult
404	View not found!	ErrorMessage
202	Accepted.	TaskSubmissionResult

403	Forbidden!	ErrorMessage
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Produces

- application/json
- application/hal+json

12.14.4. Get all

GET /export

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
401	Unauthorized	PagedModelExport
200	Ok	PagedModelExport

Produces

- application/json
- application/hal+json

12.14.5. Get export

GET /export/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the export.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	
404	EntityModel not found	
410	Gone	
200	Ok	

12.15. FailedEventFrameSynchronization

12.15.1. Re-sync one specific contextItem

POST /source/sync/failed/{failedItemId}

Parameters

Type	Name	Description	Schema
Path required	failedItemId	The identifier of the context item to be re-synced	UUID

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	
200	ok	

Produces

• /

12.15.2. Search

GET /source/sync/failed

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	query	The search query	
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
401	Unauthorized	PagedModelFailedEventFrameSynchronization
400	Bad Request	PagedModelFailedEventFrameSynchronization
200	Ok	PagedModelFailedEventFrameSynchronization

Produces

- /

12.16. Fields

12.16.1. Create new

POST /fields

Parameters

Type	Name	Description	Schema
Body <i>required</i>	FieldModel	The custom field model.	<i>FieldModel</i>

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Field
201	Created	Field

Produces

- application/json

- application/hal+json

12.16.2. Delete specific

DELETE /fields/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the custom field to delete	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.16.3. Get all

GET /fields

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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401	Unauthorized	PagedModelField
200	Ok	PagedModelField

Produces

- application/json
- application/hal+json

12.16.4. Get specific

GET /fields/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the custom field to be fetched.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	Field
404	EntityModel(s) not found!	ErrorMessage
200	Ok	Field

Produces

- application/json
- application/hal+json

12.16.5. Retrieve a list of fields linked to provided types.

POST /fields/linked

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	fieldTypes	Allowed field types	
Body <i>required</i>	string	List of type identifiers.	[string]

Responses

HTTP Code	Description	Schema
-----------	-------------	--------

401	Unauthorized	CollectionModelLinkedField
400	Bad Request	ErrorMessage
200	Ok	CollectionModelLinkedField

Produces

- application/json
- application/hal+json

12.16.6. Search fields

GET /fields/search

Parameters

Type	Name	Description	Schema
Query <i>required</i>	query	The search query	
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
401	Unauthorized	PagedModelField
400	Bad Request	ErrorMessage
200	Ok	PagedModelField

Produces

- application/json
- application/hal+json

12.16.7. Update specific

PUT /fields/{identifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	identifier	The identifier of the custom field that will be updated	String
Body <i>required</i>	FieldModel	The updated custom field model.	<i>FieldModel</i>

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Field
200	Ok	Field
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.17. History

12.17.1. Get audit trail for item

GET /history/{contextDataId}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	contextDataId	The identifier of the ContextItem.	String
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.
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Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
404	EntityModel(s) not found!	ErrorMessage
401	Unauthorized	ErrorMessage
403	Forbidden	ErrorMessage
200	Ok	PagedModelAuditTrail

Produces

- application/json
- application/hal+json

12.18. Keywords

12.18.1. Get all

GET /keywords

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
-----------	-------------	--------

401	Unauthorized	PagedModelKeyword
200	Ok	PagedModelKeyword

Produces

- application/json
- application/hal+json

12.18.2. Search keywords

GET /keywords/search

Parameters

Type	Name	Description	Schema
Query <i>required</i>	query	The search query	
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
401	Unauthorized	PagedModelKeyword
400	Bad Request	ErrorMessage
200	Ok	PagedModelKeyword

Produces

- application/json
- application/hal+json

12.18.3. Validate a list of keywords

POST /keywords

Parameters

Type	Name	Description	Schema
Body <i>required</i>	KeywordModel	A collection of keyword models.	KeywordModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	List[Keyword]
204	No content	List[Keyword]

Produces

- application/json
- application/hal+json

12.19. PropertyKeyMigration

12.19.1. Download the Property key migration dry-run report

GET /migration/property-key/report

Parameters

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

Responses

HTTP Code	Description	Schema
401	Unauthorized	
404	Resource Not Found	
200	Ok	

12.19.2. Get field migrated keys uniqueness

GET /migration/property-key/field-uniqueness

Parameters

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

Responses

HTTP Code	Description	Schema
401	Unauthorized	FieldUniquenessRepresentationModel
200	Ok	FieldUniquenessRepresentationModel

Produces

- application/json
- application/hal+json

12.19.3. Get field dry-run results

GET /migration/property-key/fields

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
401	Unauthorized	PagedModelPropertyKeyMigrationFieldData
200	Ok	PagedModelPropertyKeyMigrationFieldData

Produces

- application/json
- application/hal+json

12.19.4. Get monitor dry-run results

GET /migration/property-key/monitors

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
401	Unauthorized	PagedModelPropertyKeyMigrationMonitorData
200	Ok	PagedModelPropertyKeyMigrationMonitorData

Produces

- application/json
- application/hal+json

12.19.5. Get migration status

GET /migration/property-key/status

Parameters

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

Responses

HTTP Code	Description	Schema
401	Unauthorized	PropertyKeyMigrationStatusRepresentationModel
200	Ok	PropertyKeyMigrationStatusRepresentationModel

Produces

- application/json
- application/hal+json

12.19.6. Get view dry-run results

GET /migration/property-key/views

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
401	Unauthorized	PagedModelPropertyKeyMigrationViewData
200	Ok	PagedModelPropertyKeyMigrationViewData

Produces

- application/json
- application/hal+json

12.19.7. Update phase status

POST /migration/property-key/status

Parameters

Type	Name	Description	Schema
Body <i>required</i>	PropertyKeyMigrationPhaseStatusModel	Object holding the status for the waitingForApproval phase	PropertyKeyMigrationPhaseStatusModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
204	No content	String

Produces

- application/json
- application/hal+json

12.20. PublicDownloadGenerator

12.20.1. Generate

POST /download/generate

Parameters

Type	Name	Description	Schema
Body <i>required</i>	LinkModel	The model containing the requested link	LinkModel

Responses

HTTP Code	Description	Schema
200	Ok	DataModel

Produces

- application/json

12.21. Source

12.21.1. Get specific source

GET /source/{sourceIdentifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	sourceIdentifier	The identifier of the source to be synced	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	Source
200	Ok	Source
404	Resource(s) not found!	ErrorMessage

Produces

- /

12.21.2. Search

GET /source/search

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	query	The search query	
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
401	Unauthorized	PagedModelSource
400	Bad Request	PagedModelSource
200	Ok	PagedModelSource

Produces

- /

12.21.3. Start historical sync

POST /source/{sourceIdentifier}/sync

Parameters

Type	Name	Description	Schema
Path <i>required</i>	sourceIdentifier	The identifier of the source to be synced	String
Body <i>required</i>	SourceSynchronizationIntervalModel	Model containing the interval.	SourceSynchronizationIntervalModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	
202	Accepted	

Produces

- /

12.21.4. Update specific source

PUT /source/{sourceIdentifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	sourceIdentifier	The identifier of the source to be updated	String
Body <i>required</i>	SourceModel	Model containing the source. Only enabled flag can be changed.	SourceModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Source
404	Resource(s) not found!	Source
200	Ok	Source

Produces

• /

12.22. SourceSynchronization

12.22.1. Do a manual cleanup of one datasource

POST /source/sync/cleanup

Parameters

Type	Name	Description	Schema
Query <i>required</i>	datasourceId	The identifier of the datasource	

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	
202	Accepted	

Produces

• /

12.22.2. Re-sync specific context item

POST /source/sync/{contextItemIdentifier}

Parameters

Type	Name	Description	Schema
Path required	contextItemIdentifier	The identifier of the context item to be re-synced	String

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextItem
204	No Content	ContextItem
200	Ok	ContextItem

Produces

- /

12.22.3. Re-sync list of context items

POST /source/sync/filters

Parameters

Type	Name	Description	Schema
Body <i>required</i>	BulkResyncByFiltersModel	Model containing the list of filters.	BulkResyncByFiltersModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	
202	Accepted	

Produces

- /

12.22.4. Re-sync list of context items

POST /source/sync

Parameters

Type	Name	Description	Schema
Body <i>required</i>	BulkResyncByIdentifiersModel	Model containing the list of context item identifiers.	BulkResyncByIdentifiersModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	
202	Accepted	

Produces

- /

12.23. SourceSynchronizationInBackground

12.23.1. Cancel historical background sync job

DELETE /source/sync/background/{syncJobIdentifier}

Parameters

Type	Name	Description	Schema
<i>Path required</i>	syncJobIdentifier	The identifier of the sync job	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	BackgroundSyncJobRepresentationModel
400	Bad Request	BackgroundSyncJobRepresentationModel
200	Ok	BackgroundSyncJobRepresentationModel
404	Resource(s) not found!	ErrorMessage

Produces

- /

12.23.2. Get background sync job

GET /source/sync/background/{syncJobIdentifier}

Parameters

Type	Name	Description	Schema
<i>Path required</i>	syncJobIdentifier	The identifier of the sync job	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	BackgroundSyncJobRepresentationModel
200	Ok	BackgroundSyncJobRepresentationModel
404	Resource(s) not found!	ErrorMessage

Produces

- /

12.23.3. Search background sync jobs

GET /source/sync/background

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	query	The search query	
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
401	Unauthorized	PagedModelBackgroundSyncJobRepresentationModel
200	Ok	PagedModelBackgroundSyncJobRepresentationModel

Produces

- /

12.23.4. Update background sync job status

PUT /source/sync/background/{syncJobIdentifier}

Parameters

Type	Name	Description	Schema
Path required	syncJobIdentifier	The identifier of the sync job	String

Body <i>required</i>	BackgroundSyncJobStatusModel	Model containing the new status.	BackgroundSyncJobStatusModel
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Responses

HTTP Code	Description	Schema
401	Unauthorized	BackgroundSyncJobRepresentationModel
200	Ok	BackgroundSyncJobRepresentationModel
404	Resource(s) not found!	ErrorMessage

Produces

- /

12.24. Triggers

12.24.1. Create new

POST `/type/{typeId}/triggers`

Parameters

Type	Name	Description	Schema
Path <i>required</i>	typeId	The identifier of the context data type for which the trigger is created.	String
Body <i>required</i>	TriggerDefinitionModel	The trigger model.	TriggerDefinitionModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	TriggerDefinition
404	EntityModel(s) not found!	ErrorMessage
201	Created	TriggerDefinition
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.24.2. Delete specific

DELETE /type/{typeId}/triggers/{identifier}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the context data type the trigger is attached to.	String
Path required	identifier	The identifier of the trigger to delete	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.24.3. Get all for type

GET /type/{typeId}/triggers

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the context data type the trigger is attached to.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelTriggerDefinition
404	EntityModel(s) not found!	ErrorMessage
200	Ok	PagedModelTriggerDefinition
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.24.4. Get specific

GET /type/{typeId}/triggers/{identifier}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the context data type the trigger is attached to.	String
Path required	identifier	The identifier of the trigger to be fetched.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	TriggerDefinition
404	EntityModel(s) not found!	ErrorMessage
200	Ok	TriggerDefinition
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.24.5. Update specific

PUT /type/{typeId}/triggers/{identifier}

Parameters

Type	Name	Description	Schema
Path required	typeId	The identifier of the context data type the trigger is attached to.	String
Path required	identifier	The identifier of the trigger to update	String
Body required	TriggerDefinitionModel	The updated trigger model.	TriggerDefiniti onModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	TriggerDefinition
404	EntityModel(s) not found!	ErrorMessage
204	No content	TriggerDefinition
403	Forbidden!	ErrorMessage

Produces

- application/json
- application/hal+json

12.25. Type

12.25.1. Create new

POST /type

Parameters

Type	Name	Description	Schema
Body <i>required</i>	ContextDataTypeModel	The context date type model.	ContextDataTy peModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextDataType
404	EntityModel(s) not found!	ErrorMessage
201	Created	ContextDataType

Produces

- application/json
- application/hal+json

12.25.2. Delete specific context data type.

DELETE /type/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the type to delete	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
200	Ok	String

Produces

- application/json
- application/hal+json

12.25.3. Get all context data types

GET /type

Parameters

Type	Name	Description	Schema
Query <i>optional</i>	assetId	When provided, only types allowed for this asset are returned.	
Query <i>optional</i>	hasPermission	Type permissions the user needs to have. Possible values: CONTEXT_TYPE_WRITE or CONTEXT_TYPE_DELETE. When CONTEXT_TYPE_DELETE is provided, CONTEXT_TYPE_WRITE is automatically assumed.	
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.
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Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelContextDataType
200	Ok	PagedModelContextDataType

Produces

- application/json
- application/hal+json

12.25.4. Get specific

GET /type/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the type to be fetched	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	ContextDataType
404	EntityModel(s) not found!	ErrorMessage
200	Ok	ContextDataType

Produces

- application/json
- application/hal+json

12.25.5. Search context data types.

GET /type/search

Parameters

Type	Name	Description	Schema
Query <i>required</i>	query	The search query	
Query <i>optional</i>	hasPermission	Type permissions the user needs to have. Possible values: CONTEXT_TYPE_WRITE or CONTEXT_TYPE_DELETE. When CONTEXT_TYPE_DELETE is provided, CONTEXT_TYPE_WRITE is automatically assumed.	
Query <i>optional</i>	includeDeleted	Whether to include deleted types or not.	
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
401	Unauthorized	PagedModelContextDataTy pe
400	Bad Request	ErrorMessage
200	Ok	PagedModelContextDataTy pe

Produces

- application/json
- application/hal+json

12.25.6. Search context data types using a POST request.

POST /type/search

Parameters

Type	Name	Description	Schema
Body <i>required</i>	SearchParametersModel	Search request model.	SearchParametersModel

Responses

HTTP Code	Description	Schema
401	Unauthorized	PagedModelContextDataType
400	Bad Request	ErrorMessage
200	Ok	PagedModelContextDataType

Produces

- application/json
- application/hal+json

12.25.7. Update specific

PUT /type/{identifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	identifier	The identifier of the type that will be updated	String
Body <i>required</i>	ContextDataTypeModel	The updated context data type model.	ContextDataTypeModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	ContextDataType
200	Ok	ContextDataType
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.26. Workflow

12.26.1. Create new

POST /workflow

Parameters

Type	Name	Description	Schema
Body <i>required</i>	WorkflowModel	The workflow model.	WorkflowModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Workflow
201	Created	Workflow

Produces

- application/json
- application/hal+json

12.26.2. Delete specific workflow.

DELETE /workflow/{identifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	identifier	The identifier of the work flow to delete.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	String
404	EntityModel(s) not found!	ErrorMessage
204	No content	String

Produces

- application/json
- application/hal+json

12.26.3. Get all workflows

GET /workflow

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
401	Unauthorized	PagedModelWorkflow
200	Ok	PagedModelWorkflow

Produces

- application/json
- application/hal+json

12.26.4. Gets specific

GET /workflow/{identifier}

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the workflow to be fetched.	String

Responses

HTTP Code	Description	Schema
401	Unauthorized	Workflow
404	EntityModel(s) not found!	ErrorMessage
200	Ok	Workflow

Produces

- application/json
- application/hal+json

12.26.5. Search for workflows

GET /workflow/search

Parameters

Type	Name	Description	Schema
Query <i>required</i>	query	The search query	
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
401	Unauthorized	PagedModelWorkflow
400	Bad Request	ErrorMessage
200	Ok	PagedModelWorkflow

Produces

- application/json
- application/hal+json

12.26.6. Search for workflow states

GET /workflow/states/search

Parameters

Type	Name	Description	Schema
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Query <i>required</i>	query	The search query	
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
401	Unauthorized	PagedModelString
400	Bad Request	ErrorMessage
200	Ok	PagedModelString

Produces

- application/json
- application/hal+json

12.26.7. Update workflow

PUT /workflow/{identifier}

Parameters

Type	Name	Description	Schema
Path <i>required</i>	identifier	The identifier of the workflow that will be updated.	String
Body <i>required</i>	WorkflowModel	The updated workflow model. Can only add new intermediate states to the workflow model and update the name. Deletion of states is not allowed. Start- and end-states can not be updated. Identifier can not be updated	WorkflowModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	Workflow
200	Ok	Workflow
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

12.26.8. Update workflow states

PUT /workflow/{identifier}/states

Parameters

Type	Name	Description	Schema
Path required	identifier	The identifier of the workflow that will be updated.	String
Body required	WorkflowStatesModel	The updated workflow states model.	WorkflowStatesModel

Responses

HTTP Code	Description	Schema
400	Validation failed	ErrorMessage
401	Unauthorized	WorkflowStates
200	Ok	WorkflowStates
404	The resource was not found!	ErrorMessage

Produces

- application/json
- application/hal+json

Chapter 13. Models

13.1. *AccessRule*

Represents an access rule definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the access rule.	
objectId	X	String	The identifier of the object.	
paths	X	List of [string]	An array of paths towards the object.	
subjectId	X	String	The identifier of the subject.	
subjectType	X	String	The type of the subject: USER, GROUP, EVERYBODY, GUEST.	<i>Enum:</i> GUEST, EVERYONE, GROUP, USER,
permissions	X	Set of [string]	A set of permissions the subject has on the specified object. Can be an empty set.	<i>Enum:</i>
userDetailsResource		PermissionUserDetails		
links		List of Link		

13.2. *AggregationDefinition*

The aggregations that are defined on this field

Field Name	Required	Type	Description	Format
name		String		

13.3. *AggregationOperationRepresentationModel*

Field Name	Required	Type	Description	Format
name		String		

Field Name	Required	Type	Description	Format
queryType		String		Enum: MEDIAN, MOST_COMMON, LEAST_COMMON, REGULAR,
returnType		String		Enum: NUMERIC, STRING, DURATION,
links		List of <i>Link</i>		

13.4. AggregationResultRepresentationModel

Field Name	Required	Type	Description	Format
operation		AggregationOperationRepresentationModel		
value		Object		
links		List of <i>Link</i>		

13.5. Approval

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the approval.	
createdDate		Date	The date when the approval was given.	date-time
createdBy		String	The approver's user id.	
userDetails		UserDetails		
links		List of <i>Link</i>		

13.6. *ApprovalFilter*

Represents an Approval filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
withApprovals		Boolean	Filter context items with or with an approvals	

13.7. ApprovalFilterAllOf

Field Name	Required	Type	Description	Format
withApprovals		Boolean	Filter context items with or with an approvals	

13.8. Asset

Represents an asset

Field Name	Required	Type	Description	Format
identifier		UUID	The asset's identifier.	uuid
paths		List of string	The paths towards this asset starting from the root.	
longPaths		List of string	The old longer paths towards this asset starting from the root.	
parentNames		List of string	The names of the parents, in the same order as the paths.	
name		String	The asset's name.	
description		String	The asset's description.	
type		String	The asset's type.	
dataType		String	The asset's data type, if the Asset is an ATTRIBUTE.	
data		String	The asset's data, if the Asset is an ATTRIBUTE. (tagName or UUID)	
timeSeriesDefinition		TimeSeriesDefinitionRepresentation		
deleted		Boolean	Indication whether this asset is deleted or not.	
externalId		String	The asset's identifier in the external system.	

Field Name	Required	Type	Description	Format
template		String	The asset's template.	
templateId		String	The asset's template identifier.	
source		Source		
permissions		List of [string]	The asset's permissions.	<i>Enum:</i>
links		List of Link		

13.9. AssetModel

Collection of assets

Field Name	Required	Type	Description	Format
assets		Set of [UUID]	Set of asset identifiers	uuid

13.10. AssetType

Represents a mapping between types and their allowed assets

Field Name	Required	Type	Description	Format
types		PagedModelContextDataType		
inheritance		String	Inheritance type of the rule.	<i>Enum:</i> ALL, SELF, INHERITED,
inherited		List of Asset	Assets of which the rules were inherited	
links		List of Link		

13.11. AssetTypeModel

Collections of assets and types

Field Name	Required	Type	Description	Format
assets		Set of [UUID]	Set of asset identifiers	uuid
types		Set of [string]	Set of type identifiers	

13.12. Attachment

Represents a attachment definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the attachment	
name	X	String	The name of the attachment	
type		String	The mine type of the attachment	
extension		String	The extension of the attachment	
createdDate		Date	The date when the attachment was created	date-time
lastModifiedDate		Date	The date of the last modification of the attachment	date-time
createdBy		String	The user who created the attachment	
lastModifiedBy		String	The user who made the latest update to the attachment	
links		List of Link		

13.13. AttachmentModel

Represents an attachment definition

Field Name	Required	Type	Description	Format
name	X	String	The name of the attachment	
extension		String	The extension of the attachment	
type		String	The type of the attachment	

13.14. AuditTrail

Represents an audit trail definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the audit trail	
contextDataIdentifier		String	The identifier of the context item	
changedItemIdentifier		String	The identifier of the changed entity	
changedItemType		String	The type of the changed entity	
changedDate		Date	The date at which the changes occurred	date-time

Field Name	Required	Type	Description	Format
changedBy		String	The identifier of the user who made the changes	
action		String	The action performed	
changes		List of [map]	The changes	
userDetails		UserDetails		
links		List of Link		

13.15. BackgroundSyncJobRepresentationModel

Represents an interval to synchronize in the background

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of this sync job	uuid
source		Source		
type		String	Type of background sync	<i>Enum:</i> EXCESSIVE, HISTORICAL, CLEANUP_NIGHTLY, CLEANUP_MANUAL, CLEANUP_AFTER_AF,
status		String	Status of this background sync.	<i>Enum:</i> WAITING_FOR_SCHEDULING, SCHEDULED, WAITING, RUNNING, DONE, CANCELLED, FAILED,

Field Name	Required	Type	Description	Format
intervalStart		Date	Lower end of the interval to be synced	date-time
intervalEnd		Date	Upper end of the interval to be synced	date-time
intervalCount		Integer	Number of items in the interval to be synced	int32
intervalPage		Integer	Current page of the interval being synced	int32
submitDate		Date	Date this background interval was submitted to the queue	date-time
startDate		Date	Date the synchronization process started	date-time
endDate		Date	Date the synchronization process ended	date-time
holdDate		Date	Date the synchronization process was put on hold	date-time
resumeDate		Date	Date the synchronization process resumed	date-time
holdCount		Integer	Number of times the synchronization process was put on hold	int32
lastSyncedItemDate		Date	Last modified date of the last synced item	date-time
exceptionMessage		String	Exception message, should one have occurred in the current interval	
data		Map of [object]	Additional data related to the job	
cancelable		Boolean		
links		List of Link		

13.16. *BackgroundSyncJobStatusModel*

Represents a status for a background sync interval.

Field Name	Required	Type	Description	Format
status		String	Status of this background sync.	Enum: WAITING_FOR_SCHEDULING, SCHEDULED, WAITING, RUNNING, DONE, CANCELLED, FAILED,

13.17. *BulkDeleteByFiltersModel*

Represents the definition for a context item bulk delete by filters action

Field Name	Required	Type	Description	Format
filters	X	List of ComponentFilter , CreatedByFilter , CreatedDateFilter , CurrentStateFilter , DescriptionFilter , DurationFilter , EnumerationFieldFilter , IntervalFilter , KeywordFilter , LiveIntervalFilter , NumericFieldFilter , PeriodFilter , PropertyFieldFilter , StringFieldFilter , TypeFilter >	List of filters to which context items have to match to be deleted. Mutually exclusive with identifiers field.	
createdBefore	X	Date	Date before which context items need to be created to be deleted when using the filters. Mutually exclusive with identifiers field. Will default to request date.	date-time

13.18. *BulkDeleteByIdentifiersModel*

Represents the definition for a context item bulk delete by identifiers action

Field Name	Required	Type	Description	Format
identifiers	X	List of [UUID]	List of context item identifiers to be deleted. Mutually exclusive with the other fields.	uuid

13.19. *BulkDeleteResult*

Represents the result of a bulk delete action.

Field Name	Required	Type	Description	Format
deleted		Integer	The number of deleted context items.	int32
remaining		Integer	The number of remaining context item created before the provided date.	int32

13.20. *BulkResyncByFiltersModel*

Represents the definition for a context item resync by filters action

Field Name	Required	Type	Description	Format
filters	X	List of ComponentFilter, CreatedByFilter, CreatedDateFilter, CurrentStateFilter, DescriptionFilter, DurationFilter, EnumerationFieldFilter, IntervalFilter, KeywordFilter, LiveIntervalFilter, NumericFieldFilter, PeriodFilter, PropertyFieldFilter, StringFieldFilter, TypeFilter >	List of filters to which context items have to match to be resynced.	
createdBefore	X	Date	Date before which context items need to be created to be resync when using the filters. Will default to request date.	date-time

13.21. *BulkResyncByIdentifiersModel*

Represents the definition for a context item resync by identifiers action

Field Name	Required	Type	Description	Format
identifiers	X	List of [UUID]	List of context item identifiers to be resynced.	uuid

13.22.

CollectionModelAggregationOperationRepresentationModel

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

13.23.

CollectionModelAggregationResultRepresentationModel

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

13.24. *CollectionModelLinkedField*

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

13.25. *ColumnSettingsView*

Settings for the table view (frontend related)

Field Name	Required	Type	Description	Format
general		List of GeneralColumn		
fields		List of FieldModelColumn		

13.26. Comment

Represents a comment definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the comment	
content	X	String	The content of the comment	
createdDate		Date	The date when the comment was created	date-time
lastModifiedDate		Date	The date of the last modification of the comment	date-time
createdBy		String		
lastModifiedBy		String		
userDetails		UserDetails		
links		List of Link		

13.27. CommentModel

Represents a comment definition

Field Name	Required	Type	Description	Format
content	X	String	The comment content	

13.28. ComponentFilter

Represents a Component filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
mode		String		
components		List of ComponentValue		
includeAncestors		Boolean		
componentResources		List of ContextItemComponent		
numComponents		Integer		int32
resolvedComponents		Set of [string]		

13.29. *ComponentFilterAllOf*

Field Name	Required	Type	Description	Format
mode		String		
components		List of ComponentValue		
includeAncestors		Boolean		
componentResources		List of ContextItemComponent		
numComponents		Integer		int32
resolvedComponents		Set of [string]		

13.30. *ComponentValue*

Field Name	Required	Type	Description	Format
identifier		String		
path		String		
type	X	String		

Field Name	Required	Type	Description	Format
include		String		<i>Enum:</i> SELF, ANCESTORS, DESCENDANTS,

13.31. ContextData

Represents a context data definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the context data	
shortKey		String	The short key of the context event	
description		String	The description of the context data	
externalId		String	The external identifier of the context data	
type		ContextDataType		
keywords		Set of [string]	The keywords for this context data	
fields		Map of [object]	The optional fields as their key and values	
permissions		Set of [string]	Permissions on the context data	
links		List of Link		

13.32. ContextDataModel

Represents a context data definition

Field Name	Required	Type	Description	Format
type	X	ContextDataType Model		
description		String	The description of the context data	
externalId		String	The external id of the context data	
keywords	X	Set of [string]	The keywords the context data is tagged with	
fields		Map of [object]	The optional fields as their key and values	

13.33. ContextDataType

Represents a context data type definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the context data type	
name		String	The name of the context data type	
workflow		Workflow		
color		String	The color of the context data type in hex value	
icon		String	The icon name of the context data type	
externalId		String	The external id of the context data type	
deleted		Boolean	Boolean that indicates if the context data type is deleted	
deletable		Boolean	Boolean that indicates if the context data type is deletable	
approvalsEnabled		Boolean	Boolean that indicates whether approvals are enabled or not	
auditTrailEnabled		Boolean	Boolean that indicates whether audit trail is enabled or not	
fields		List of <i>Field</i>		
permissions		Set of [string]	Set of permissions the current user has on this type	
fieldLabelIdentifier		String	The id of the custom field that will be used as a label on gantt view	
source		Source		
links		List of <i>Link</i>		

13.34. ContextDataTypeModel

Represents a context data type definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the context data type. If empty, one will be generated	
source		SourceModel		
externalId		String	The identifier of the type in the external source system	
name	X	String	The name of the context data type	

Field Name	Required	Type	Description	Format
workflow		WorkflowModel		
color		String	The color of the context data type in hex value	
icon	X	String	The icon name of the context data type	
fields		List of <i>FieldModel</i>	The custom fields linked to this context data type	
deletable		Boolean	If the ContextDataType is deletable or not	
approvalsEnabled		Boolean	Whether the ContextDataType has approvals enabled or not	
auditTrailEnabled		Boolean	Whether the ContextDataType has audit trail enabled or not	
fieldLabelIdentifier		UUID	The id of the custom field that will be used as a label on gantt view	uuid

13.35. ContextEvent

Represents a context event definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the context event	
occurred		Date	The timestamp when this event took place	date-time
state		String	The state of this event	
links		List of <i>Link</i>		

13.36. ContextEventModel

Represents a context event definition

Field Name	Required	Type	Description	Format
state		String	The state of the event, can be stateless if the context item does not describe a workflow	
occurred	X	Date	The date on which the event occurred	date-time

13.37. ContextItem

Field Name	Required	Type	Description	Format
permissions		Set of [string]	Permissions on the context data	
identifier		String	The identifier of the context item	
shortKey		String	The short key of the context item	
externalId		String	The external system's original id	
description		String	The description of the context item	
events		List of ContextEvent	The events of the context item	
lastModifiedDate		Date	The date of the most recent event of the context item	date-time
createdBy		String	The uuid of the user who created the context item	
createdDate		Date	The date this context item was created	date-time
userDetails		UserDetails		
components		List of ContextItemComponent	The components for which the context item is registered	
type		ContextDataType		
workFlowDescribed		Boolean	True if the context item type has a workflow	
fields		Map of [object]	Contains the optional fields as their key and values	
keywords		Set of [string]	The keywords the context data is tagged with	
startEventDate		Date	The date of the start event of the context item	date-time
endEventDate		Date	The date of the end event	date-time
lastEventState		String	The state of the most recent event of the context item	
totalDuration		String	The total duration of the context item	
links		List of Link		

13.38. ContextItemComponent

The component for which the context item is registered

Field Name	Required	Type	Description	Format
identifier		String		
name		String		
description		String		
type		String		
reference		String		
parentName		String		
path		String		
permissions		Set of [string]		
deleted		Boolean		
include		String		<i>Enum:</i> SELF, ANCESTORS, DESCENDANTS,

13.39. *ContextItemComponentModel*

Represents a data reference definition

Field Name	Required	Type	Description	Format
type	X	String	The data reference type	
reference	X	String	The id of the referenced data	
identifier		String	The identifier of the data reference	

13.40. *ContextItemEventModel*

Represents a context event definition

Field Name	Required	Type	Description	Format
state		String	The state of the event, can be stateless if the context item does not describe a workflow	
occurred	X	Date	The date on which the event occurred	date-time
identifier		String	The identifier of the context event	

13.41. ContextItemModel

Represents a context item definition

Field Name	Required	Type	Description	Format
description		String	The description of the context item	
externalId		String	The external system's original id	
events	X	List of ContextItemEventModel	The events of the context item	
components		List of ContextItemComponentModel	The components of the context item	
type	X	ContextDataTypeModel		
keywords		Set of [string]	The keywords the context data is tagged with	
fields		Map of [object]	Contains the optional fields as their key and values	

13.42. ContextView

Represents a context view definition

Field Name	Required	Type	Description	Format
description		String		
folder		Boolean		
identifier		String		
lastModifiedDate		Date		date-time
name		String		
owner		String		
ownerUuid		String		
shared		Boolean		
data		ContextViewData		
permissions		List of [string]		
parentId		String		
links		List of Link		

13.43. *ContextViewData*

Field Name	Required	Type	Description	Format
filters		List of ComponentFilter , CreatedByFilter , CreatedDateFilter , CurrentStateFilter , DescriptionFilter , DurationFilter , EnumerationFieldFilter , IntervalFilter , KeywordFilter , LiveIntervalFilter , NumericFieldFilter , PeriodFilter , PropertyFieldFilter , StringFieldFilter , TypeFilter >	List of filters	
viewType		String	Type of the view (frontend related)	
columnSettings		ColumnSettingsView		
ganttSettings		Object	Settings for the gantt view (frontend related)	
sortSettings		Object	Sort settings	
scatterSettings		Object	Scatter settings	
gridSettings		Object	Grid settings	

13.44. *CountIndependentSearchRequestModel*

Represents a search request definition used in the count independent search.

Field Name	Required	Type	Description	Format
filters		List of ComponentFilter , CreatedByFilter , CreatedDateFilter , CurrentStateFilter , DescriptionFilter , DurationFilter , EnumerationFieldFilter , IntervalFilter , KeywordFilter , LiveIntervalFilter , NumericFieldFilter , PeriodFilter , PropertyFieldFilter , StringFieldFilter , TypeFilter >		
sortDirection		String	The sorting direction.	
sortProperties		List of [string]	List of properties to sort on. The order of the list is the sorting order. First sort on Index 0 then on 1 to n-1.	
fetchSize		Integer	Number of items to fetch.	int32
continuationToken		String	Token generated by the service that represent a marker for where the previous page ended.	

13.45. *CountRepresentationModel*

Field Name	Required	Type	Description	Format
totalCount		Long		int64

13.46. *CreatedByFilter*

Represents a CreatedBy filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of <i>ValidationResultMessage</i>		
order		Integer		int32
users	X	List of [string]		
userDetails		List of <i>UserDetails</i>		

13.47. *CreatedByFilterAllOf*

Field Name	Required	Type	Description	Format
users		List of [string]		
userDetails		List of <i>UserDetails</i>		

13.48. *CreatedDateFilter*

Represents a created date filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of <i>ValidationResultMessage</i>		
order		Integer		int32
createdDate	X	Date		date-time
operator	X	String		<i>Enum:</i> EQUAL, NOT_EQUAL, LESS_THAN, LESS_THAN_OR_EQUAL, GREATER_THAN, GREATER_THAN_OR_EQUAL,

13.49. CreatedDateFilterAllOf

Field Name	Required	Type	Description	Format
createdDate		Date		date-time
operator		String		<i>Enum:</i> EQUAL, NOT_EQUAL, LESS_THAN, LESS_THAN_OR_EQUAL, GREATER_THAN, GREATER_THAN_OR_EQUAL,

13.50. *CurrentStateFilter*

Represents a Current state filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of <i>ValidationResultMessage</i>		
order		Integer		int32
states		List of [string]		
mode		String		

13.51. *CurrentStateFilterAllOf*

Field Name	Required	Type	Description	Format
states		List of [string]		
mode		String		

13.52. *DataImport*

Field Name	Required	Type	Description	Format
id		String		
name		String		
type		String		
created		Date		date-time
createdBy		String		
modified		Date		date-time
status		String		<i>Enum:</i> UPLOADED, COMPLETED, COMPLETED_WITH_ERRORS, FAILED,
errors		Long		int64
errorMessage		String		
parameters		List of <i>Parameter</i>		

Field Name	Required	Type	Description	Format
errorsFileName		String		
fileName		String		

13.53. *DataModel*

Field Name	Required	Type	Description	Format
data		String	the signed link data	

13.54. *DataReference*

Represents a data reference definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the data reference	
type	X	String	The data reference type	
reference	X	String	The id of the referenced data	
links		List of <i>Link</i>		

13.55. *DataReferenceModel*

Represents a data reference definition

Field Name	Required	Type	Description	Format
type	X	String	The data reference type	
reference	X	String	The id of the referenced data	

13.56. *DescriptionFilter*

Represents a Description filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of <i>ValidationResultMessage</i>		
order		Integer		int32
values		List of [string]		
mode		String		

13.57. *DescriptionFilterAllOf*

Field Name	Required	Type	Description	Format
values		List of [string]		
mode		String		

13.58. *DurationCondition*

Represents a duration condition definition

Field Name	Required	Type	Description	Format
value		String		
operator	X	String		<i>Enum:</i> EQUAL, NOT_EQUAL, LESS_THAN, LESS_THAN_OR_EQUAL, GREATER_THAN, GREATER_THAN_OR_EQUAL,

13.59. *DurationFilter*

Represents a value filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
conditions	X	List of DurationCondition		

13.60. *DurationFilterAllOf*

Field Name	Required	Type	Description	Format
conditions		List of DurationCondition		

13.61. *EnumerationFieldFilter*

Represents an Enumeration Field filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
fieldIdentifier		UUID		uuid
field		String		
values		List of [string]		
customField		Field		
mode		String		

13.62. EnumerationFieldFilterAllOf

Field Name	Required	Type	Description	Format
fieldIdentifier		UUID		uuid
field		String		
values		List of [string]		
customField		Field		
mode		String		

13.63. ErrorDetail

Field Name	Required	Type	Description	Format
defaultMessage		String		

13.64. ErrorMessage

Represents a tm-context exception

Field Name	Required	Type	Description	Format
statusCode		String	The httpStatus code of the exception	Enum: 100 CONTINUE, 101 SWITCHING_PROTOCOLS, 102 PROCESSING, 103 CHECKPOINT, 200 OK, 201 CREATED, 202 ACCEPTED, 203 NON_AUTHORITATIVE_INFORMATION, 204 NO_CONTENT, 205 RESET_CONTENT, 206 PARTIAL_CONTENT, 207 MULTISTATUS, 208 ALREADY_REPORTED, 226 IM_USED, 300 MULTIPLE_CHOICES, 301 MOVED_PERMANENTLY, 302 FOUND, 302 MOVED
				19

Field Name	Required	Type	Description	Format
errorCode		String	The specific error code of the exception	
message		String	The exception message	
details		Object	The details of the exception	

13.65. *Export*

Represents an export

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
type		String		<i>Enum:</i> CSV_CO MMA_SE PARATE D, CSV_SE MICOLO N_SEPA RATED, XLSX, ZIP,
downloadName		String		
createdBy		String		
createdDate		Date		date- time
lastDownloadDate		Date		date- time
links		List of <i>Link</i>		

13.66. *ExportModel*

Represents an export creation definition

Field Name	Required	Type	Description	Format
viewIdentifier	X	String	The identifier of the view to be exported	

Field Name	Required	Type	Description	Format
type	X	String	The type of the export	Enum: CSV_CO MMA_SE PARATE D, CSV_SE MICOLO N_SEPA RATED, XLSX, ZIP, CSV_CO MMA_SE PARATE D,CSV_S EMICOL ON_SEP ARATED ,XLSX,
timezone		String	The timezone in which to display all times	
hostname		String	The TrendMiner hostname	

13.67. *FailedEventFrameSynchronization*

Represents a source and its synchronization status

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of the failed event frame synchronization	uuid
source		Source		
externalId		String	The identifier of the event frame in the source system	
failureDate		Date	The date when the failure of syncing occurred	date-time
exceptionMessage		String	The failure's exception message	
links		List of Link		

13.68. *Field*

Represents a custom field definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the field	
propertyKey		String	The technical identifier of the field	
name	X	String	The name of the field	
type	X	String	The field type, must be one of these values: STRING, NUMERIC, ENUMERATION	
placeholder		String	The placeholder of the field, an example value for what this field's value might look like	
options		List of [string]	The possible options of the field, only applicable when type Enumeration is chosen	
aggregations		List of AggregationDefinition	The aggregations that are defined on this field	
links		List of Link		

13.69. *FieldFilter*

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
fieldIdentifier		UUID		uuid
field		String		
order		Integer		int32

13.70. FieldModel

Represents a custom field definition

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of the field	uuid
propertyKey	X	String	The property key of the field	
name	X	String	The name of the field	
type	X	String	The field type, must be one of these values: STRING, NUMERIC, ENUMERATION	
placeholder		String	The placeholder of the field, an example value for what this field's value might look like	
options		List of [string]	The possible options of the field, only applicable when type Enumeration is chosen	

13.71. FieldModelColumn

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the field	
propertyKey		String	The technical identifier of the field	
name	X	String	The name of the field	
type	X	String	The field type, must be one of these values: STRING, NUMERIC, ENUMERATION	
placeholder		String	The placeholder of the field, an example value for what this field's value might look like	

Field Name	Required	Type	Description	Format
options		List of [string]	The possible options of the field, only applicable when type Enumeration is chosen	
aggregations		List of AggregationDefinition	The aggregations that are defined on this field	
order		Integer		int32
width		Integer		int32
links		List of Link		

13.72. *FieldUniquenessRepresentationModel*

Field Name	Required	Type	Description	Format
unique		Boolean		

13.73. *Filter*

Represents the base Filter

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32

13.74. GeneralColumn

Field Name	Required	Type	Description	Format
name		String		
order		Integer		int32
width		Integer		int32
aggregations		List of AggregationDefinition	The aggregations that are defined on this column	

13.75. I18nMessage

Field Name	Required	Type	Description	Format
code		ErrorDetail		
message		String		
parameters		Map of [object]		

13.76. IdListModel

Model for a List containing UUID

Field Name	Required	Type	Description	Format
uuidList		List of [UUID]		uuid

13.77. IntervalFilter

Represents a Interval filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
startDate	X	Date	The start of the filter segment	date-time
endDate	X	Date	The end of the filter segment	date-time
intervalType	X	String	The intervalType: EVENT(default) or CREATED_DATE	

13.78. *IntervalFilterAllOf*

Field Name	Required	Type	Description	Format
startDate		Date	The start of the filter segment	date-time
endDate		Date	The end of the filter segment	date-time
intervalType		String	The intervalType: EVENT(default) or CREATED_DATE	

13.79. *Keyword*

Represents a keyword definition

Field Name	Required	Type	Description	Format
keyword		String	The keyword	
links		List of Link		

13.80. *KeywordFilter*

Represents a Keyword filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
keywords		List of [string]		
mode		String		

13.81. *KeywordFilterAllOf*

Field Name	Required	Type	Description	Format
keywords		List of [string]		
mode		String		

13.82. *KeywordModel*

Field Name	Required	Type	Description	Format
keyword	X	String	The string value representing a keyword	

13.83. *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		

13.84. *LinkModel*

Field Name	Required	Type	Description	Format
link	X	String	The requested link.	
validity		Long	Validity of the requested token, in seconds.	int64

13.85. *LinkedField*

Represents a custom field definition with an indication of usage over provided types

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the field	
propertyKey		String	The technical identifier of the field	
name	X	String	The name of the field	
type	X	String	The field type, must be one of these values: STRING, NUMERIC, ENUMERATION	
placeholder		String	The placeholder of the field, an example value for what this field's value might look like	
options		List of [string]	The possible options of the field, only applicable when type Enumeration is chosen	
aggregations		List of AggregationDefinition	The aggregations that are defined on this field	
all		Boolean	Indicates whether the field is present on all or just some provided types.	
links		List of Link		

13.86. *LiveIntervalFilter*

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32

13.87. *MinimalContextItem*

Field Name	Required	Type	Description	Format
permissions		Set of [string]	Permissions on the context data	
identifier		String	The identifier of the context item	
components		List of ContextItemComponent	The component for which the context item is registered	
startEventDate		Date	The date of the start event of the context item	date-time
endEventDate		Date	The date of the end event	date-time
links		List of Link		

13.88. *NumericCondition*

Represents a numeric condition definition

Field Name	Required	Type	Description	Format
value	X	Double		double
operator	X	String		<i>Enum:</i> EQUAL, NOT_EQUAL, LESS_THAN, LESS_THAN_OR_EQUAL, GREATER_THAN, GREATER_THAN_OR_EQUAL,

13.89. *NumericFieldFilter*

Represents a Numeric Field filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
fieldIdentifier		UUID		uuid
field		String		
conditions		List of NumericCondition		
customField		Field		
mode		String		

13.90. *NumericFieldFilterAllOf*

Field Name	Required	Type	Description	Format
fieldIdentifier		UUID		uuid
field		String		
conditions		List of NumericCondition		
customField		Field		
mode		String		

13.91. *PageDataImport*

Field Name	Required	Type	Description	Format
totalPages		Integer		int32
totalElements		Long		int64
first		Boolean		
last		Boolean		
numberOfElements		Integer		int32
sort		Sort		
pageable		Pageable		
number		Integer		int32
size		Integer		int32
content		List of DataImport		

Field Name	Required	Type	Description	Format
empty		Boolean		

13.92. PageMetadata

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

13.93. Pageable

Field Name	Required	Type	Description	Format
unpaged		Boolean		
pageSize		Integer		int32
pageNumber		Integer		int32
paged		Boolean		
sort		Sort		
offset		Long		int64

13.94. PagedModelAttachment

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

13.95. PagedModelAuditTrail

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

13.96.

PagedModelBackgroundSyncJobRepresentationModel

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

13.97. *PagedModelComment*

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

13.98. *PagedModelContextData*

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

13.99. *PagedModelContextDataType*

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

13.100. *PagedModelContextEvent*

Field Name	Required	Type	Description	Format
links		List of <i>Link</i>		
content		List of <i>ContextEvent</i>		
page		PageMetadata		

13.101. *PagedModelContextItem*

Field Name	Required	Type	Description	Format
links		List of <i>Link</i>		
content		List of <i>ContextItem</i>		
page		PageMetadata		

13.102. *PagedModelDataReference*

Field Name	Required	Type	Description	Format
links		List of <i>Link</i>		
content		List of <i>DataReference</i>		
page		PageMetadata		

13.103. *PagedModelExport*

Field Name	Required	Type	Description	Format
links		List of <i>Link</i>		
content		List of <i>Export</i>		
page		PageMetadata		

13.104. *PagedModelFailedEventFrameSynchronization*

Field Name	Required	Type	Description	Format
links		List of <i>Link</i>		
content		List of <i>FailedEventFrameSynchronization</i>		
page		PageMetadata		

13.105. *PagedModelField*

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

13.106. *PagedModelKeyword*

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

13.107. *PagedModelPropertyKeyMigrationFieldData*

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

13.108. *PagedModelPropertyKeyMigrationMonitorData*

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

13.109. *PagedModelPropertyKeyMigrationViewData*

Field Name	Required	Type	Description	Format
links		List of Link		

Field Name	Required	Type	Description	Format
content		List of PropertyKeyMigrationViewData		
page		PageMetadata		

13.110. *PagedModelSource*

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

13.111. *PagedModelString*

Field Name	Required	Type	Description	Format
links		List of Link		
content		List of [string]		
page		PageMetadata		

13.112. *PagedModelTriggerDefinition*

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

13.113. *PagedModelWorkflow*

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

13.114. *Parameter*

Field Name	Required	Type	Description	Format
name		String		
value		String		

13.115. *PeriodFilter*

Represents a period filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
periodType		String	The period type. Deprecated field. Use period instead.	Enum: ONE_HOUR, LAST_HOUR, TWO_HOURS, LAST_TWO_HOURS, EIGHT_HOURS, LAST_EIGHT_HOURS, ONE_DAY, LAST_DAY, SEVEN_DAYS, LAST_WEEK, LAST_FOUR_WEEKS, THIRTY_DAYS, INVALID ,
period		String	The period in String format	ISO8601
live		Boolean	Indicates to start a live search	

13.116. *PeriodFilterAllOf*

Field Name	Required	Type	Description	Format
periodType		String	The period type. Deprecated field. Use period instead.	Enum: ONE_HOUR, LAST_HOUR, TWO_HOURS, LAST_TWO_HOURS, EIGHT_HOURS, LAST_EIGHT_HOURS, ONE_DAY, LAST_DAY, SEVEN_DAYS, LAST_WEEK, LAST_FOUR_WEEKS, THIRTY_DAYS, INVALID ,
period		String	The period in String format	ISO8601
live		Boolean	Indicates to start a live search	

13.117. *PermissionUserDetails*

Represents a subset of user details

Field Name	Required	Type	Description	Format
userId		String	User's id.	
userName		String	User's username.	
firstName		String	User's first name.	
lastName		String	User's last name.	
admin		Boolean	Indication whether user is an admin or not.	

13.118. *PropertyFieldFilter*

Represents a String Field filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
fieldIdentifier		UUID		uuid
field		String		
key	X	String		
values	X	List of [string]		

13.119. *PropertyFieldFilterAllOf*

Field Name	Required	Type	Description	Format
fieldIdentifier		UUID		uuid
field		String		
key		String		
values		List of [string]		

13.120. *PropertyKeyMigrationField*

Field Name	Required	Type	Description	Format
original		String		
migrated		String		

13.121. *PropertyKeyMigrationFieldData*

Represents the changes to be performed on a field

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
name		String		
type		String		
propertyKey		String		
migratedKey		String		
ambiguous		Boolean		
createdByDetails		UserDetails		

Field Name	Required	Type	Description	Format
links		List of Link		

13.122. *PropertyKeyMigrationFieldFilter*

Field Name	Required	Type	Description	Format
original		FieldFilter		
migrated		FieldFilter		

13.123. *PropertyKeyMigrationMonitorData*

Represents the changes to be performed on a monitor

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
monitorIdentifier		String		
monitorOwner		String		
monitorOwnerId entifier		String		
monitorName		String		
monitorOwnerDet ails		UserDetails		
fields		List of PropertyKeyMigrationField		
links		List of Link		

13.124. *PropertyKeyMigrationPhaseRepresentationModel*

Field Name	Required	Type	Description	Format
startDate		Date		date-time
endDate		Date		date-time

Field Name	Required	Type	Description	Format
status		String		Enum: WAITING, RUNNING, FINISHED, FAILED, SKIPPED, '

13.125. *PropertyKeyMigrationPhaseStatusModel*

Field Name	Required	Type	Description	Format
waitingForApproval		String		

13.126. *PropertyKeyMigrationPropertyFieldFilter*

Field Name	Required	Type	Description	Format
original		PropertyFieldFilter		
migrated		PropertyFieldFilter		

13.127. *PropertyKeyMigrationStatusRepresentationModel*

Field Name	Required	Type	Description	Format
dryRun		PropertyKeyMigrationPhaseRepresentationModel		
waitingForApproval		PropertyKeyMigrationPhaseRepresentationModel		

13.128. *PropertyKeyMigrationViewData*

Represents the changes to be performed on a view

Field Name	Required	Type	Description	Format
identifier		UUID		uuid
viewIdentifier		String		
viewOwner		String		
viewOwnerIdentifier		String		
viewOwnerDetails		UserDetails		
viewName		String		
fieldFilters		List of PropertyKeyMigrationFieldFilter		
propertyFilters		List of PropertyKeyMigrationPropertyFieldFilter		
ganttGroupBy		PropertyKeyMigrationField		
ambiguous		Boolean		
links		List of Link		

13.129. *ReactiveSearchRequestModel*

Represents a reactive search request definition

Field Name	Required	Type	Description	Format
filters		List of ComponentFilter , CreatedByFilter , CreatedDateFilter , CurrentStateFilter , DescriptionFilter , DurationFilter , EnumerationFieldFilter , IntervalFilter , KeywordFilter , LiveIntervalFilter , NumericFieldFilter , PeriodFilter , PropertyFieldFilter , StringFieldFilter , TypeFilter >		
sort		Sort		
pageSize		Integer		int32
delay		Integer		int32

Field Name	Required	Type	Description	Format
limit		Integer		int32
bufferSize		Integer		int32
useTimeSeriesIdentifier		Boolean	Boolean to indicate if Tag need to be resolved to UUIDs or not, default false	
dataSort		Sort		

13.130. *SearchParametersModel*

Represents search parameters

Field Name	Required	Type	Description	Format
query	X	String	Search query	
hasPermission		String	Type permissions the user needs to have. Possible values: CONTEXT_TYPE_WRITE or CONTEXT_TYPE_DELETE. When CONTEXT_TYPE_DELETE is provided, CONTEXT_TYPE_WRITE is automatically assumed.	
includeDeleted		Boolean	Whether to include deleted types or not.	
page		Integer		int32
size		Integer		int32
sort		List of [string]		

13.131. *SearchRequestModel*

Represents a search request definition

Field Name	Required	Type	Description	Format
filters		List of ComponentFilter , CreatedByFilter , CreatedDateFilter , CurrentStateFilter , DescriptionFilter , DurationFilter , EnumerationFieldFilter , IntervalFilter , KeywordFilter , LiveIntervalFilter , NumericFieldFilter , PeriodFilter , PropertyFieldFilter , StringFieldFilter , TypeFilter >		

13.132. Sort

Field Name	Required	Type	Description	Format
sorted		Boolean		
unsorted		Boolean		
empty		Boolean		

13.133. Source

Represents a source and its synchronization status

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of the source	uuid
name		String	The name of the source	
externalId		String	The identifier of the source in tm-datasource	
enabled		Boolean	Indication whether the LIVE synchronization for this source is enabled or not	
currentIntervalStart		Date	Lower end of the current interval being synced	date-time
currentIntervalEnd		Date	Upper end of the current interval being synced	date-time
currentIntervalCount		Integer	Number of items in the current interval being synced	int32

Field Name	Required	Type	Description	Format
currentIntervalPage		Integer	Current page of the current interval being synced	int32
lastSyncedItemDate		Date	Last modified date of the last synced item	date-time
exceptionMessage		String	Exception message, should one have occurred in the current interval	
syncPageSize		Integer	The sync page size	int32
links		List of Link		

13.134. *SourceModel*

The source to which this workflow belongs

Field Name	Required	Type	Description	Format
identifier		UUID	The source's identifier.	uuid
enabled		Boolean	Indication whether live sync should be enabled or not.	

13.135. *SourceSynchronizationIntervalModel*

Field Name	Required	Type	Description	Format
startDate	X	Date	The start date of the interval to sync.	date-time
endDate		Date	The end date of the interval to sync. Current date will be taken if left empty.	date-time
cancelable		Boolean		

13.136. *StringFieldFilter*

Represents a String Field filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
fieldIdentifier		UUID		uuid
field		String		
values		List of [string]		
customField		Field		
mode		String		

13.137. *StringFieldFilterAllOf*

Field Name	Required	Type	Description	Format
fieldIdentifier		UUID		uuid
field		String		
values		List of [string]		
customField		Field		
mode		String		

13.138. *TaskSubmissionResult*

Field Name	Required	Type	Description	Format
running		Integer	Number of tasks currently being executed.	int32
queued		Integer	Number of tasks currently queued.	int32

13.139. *TimeSeriesDefinitionRepresentation*

TimeSeries definition to which the data points. Can be empty, even if data is present.

Field Name	Required	Type	Description	Format
datasourceId		UUID		uuid
ownerId		String		
externalId		String		
name		String		

Field Name	Required	Type	Description	Format
description		String		
type		String		
units		String		
interpolationType		String		
deleted		Boolean		
plotDataUrl		String		
indexDataUrl		String		
links		List of <i>Link</i>		
id		UUID		uuid

13.140. *TokenMetaData*

Field Name	Required	Type	Description	Format
continuationToken		String		

13.141. *TokenizedPageModelContextItem*

Field Name	Required	Type	Description	Format
content		List of <i>ContextItem</i>		
page		TokenMetaData		

13.142. *TriggerDefinition*

Represents a trigger definition

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the trigger	
state		String	The triggering state, an empty state means the trigger should fire on all possible states.	
type		String	The trigger type	<i>Enum:</i> EXPORT _DASHB OARD,
configuration		Map of <i>[string]</i>	The configuration for the trigger. Depends on the selected type	
links		List of <i>Link</i>		

13.143. *TriggerDefinitionModel*

Represents a trigger definition

Field Name	Required	Type	Description	Format
state		String	The workflow state causing this trigger to fire. An empty state means the trigger should fire on all possible states.	
type	X	String	The trigger type.	<i>Enum:</i> EXPORT_DASHBOARD,
configuration	X	Map of [string]	The configuration for the trigger. Depends on the selected type.	

13.144. *TypeAccessRuleModel*

Object used for creating and updating an access rule

Field Name	Required	Type	Description	Format
identifier		String	The identifier of the access rule.	
subjectId	X	String	The identifier of the subject.	
subjectType	X	String	The type of the subject.	<i>Enum:</i> GUEST, EVERYONE, GROUP, USER, USER, GROUP, EVERYONE, GUEST,
permissions	X	Set of [string]	A set of permissions the subject has on the specified object.	<i>Enum:</i> CONTEXT_TYPE_READ, CONTEXT_TYPE_WRITE, CONTEXT_TYPE_DELETE,

13.145. *TypeFilter*

Represents a type filter definition

Field Name	Required	Type	Description	Format
type		String		<i>Enum:</i> INTERVAL_FILTER, LIVE_INTERVAL_FILTER, PERIOD_FILTER, COMPONENT_FILTER, TYPE_FILTER, KEYWORD_FILTER, STRING_FIELD_FILTER, ENUMERATION_FIELD_FILTER, NUMERIC_FIELD_FILTER, PROPERTY_FIELD_FILTER, CREATED_BY_FILTER, DESCRIPTION_FILTER, DURATION_FILTER, APPROVAL_FILTER, CURRENT_STATE_FILTER, CREATED_DATE_FILTER, EXTERNAL_FILTER,

Field Name	Required	Type	Description	Format
valid		Boolean		
validationResultMessages		List of ValidationResultMessage		
order		Integer		int32
types	X	List of [string]		
typeResources		List of ContextDataType		

13.146. *TypeFilterAllOf*

Field Name	Required	Type	Description	Format
types		List of [string]		
typeResources		List of ContextDataType		

13.147. *UserDetails*

The details of the user who created the context item

Field Name	Required	Type	Description	Format
identifier		String	The uuid of the user who created the context item	
username		String	The name of the user who created the context item	
firstName		String	The first name of the user who created the context item	
lastName		String	The last name of the user who created the context item	
links		List of Link		

13.148. *ValidationResultMessage*

Field Name	Required	Type	Description	Format
key		String		
message		I18nMessage		

13.149. *Workflow*

Represents a work flow definition

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of the workflow	uuid
name	X	String	The name of the workflow	
startState	X	String	The start state of the workflow	
endState	X	String	The end state of the workflow	
states	X	Set of [string]	The possible states of the workflow	
deletable		Boolean	Boolean that indicates if the workflow is deletable	
source		Source		
links		List of Link		

13.150. *WorkflowModel*

Represents a work flow definition

Field Name	Required	Type	Description	Format
identifier		UUID	The identifier of the workflow	uuid
source		SourceModel		
externalId	X	String	The identifier of the workflow in the external source system	
name	X	String	The name of the workflow	
startState	X	String	The start state of the workflow	
endState	X	String	The end state of the workflow	
states	X	Set of [string]	The possible states of the workflow	
deletable		Boolean	If the workflow is deletable or not	

13.151. *WorkflowStates*

Represents a work flow states definition

Field Name	Required	Type	Description	Format
states	X	Set of [string]	The possible states of the work flow	
links		List of Link		

13.152. *WorkflowStatesModel*

Represents the possible states for a work flow definition

Field Name	Required	Type	Description	Format
states	X	Set of string	The possible states of the work flow	

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